

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

% protein - protein search, using sw model

on: February 24, 2004, 02:09:41 ; Search time 65 Seconds
(without alignments)
1344.593 Million cell updates/sec

itle: US-09-600-932-2

effect score: 1484

sequence: 1 MNGFASLLRRNQFILLVFL.....NDTECHLTMYFVCFIKKK 277

coring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

earched: 1017041 seqs, 315518202 residues

otal number of hits satisfying chosen parameters: 1017041

inimum DB seq length: 0

aximum DB seq length: 2000000000

ost-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

atabase :

SPTREMBL_25:*

1: sp_archea:*

2: sp_bacteria:*

3: sp_fungi:*

4: sp_human:*

5: sp_invertebrate:*

6: sp_mammal:*

7: sp_mhc:*

8: sp_organelle:*

9: sp_phase:*

10: sp_plant:*

11: sp_rodent:*

12: sp_virus:*

13: sp_vertebrate:*

14: sp_unclassified:*

15: sp_virus:*

16: sp_bacteriap:*

17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Query Match	Length	DB ID	Description
1	1484	100.0	277	4 Q9Y6Z7	Q9Y6Z7 homo sapien
2	1330	89.6	277	11 Q8C1C5	Q8C1C5 mus musculus
3	1327	89.4	277	11 Q8CF98	Q8CF98 mus musculus
4	734	49.5	271	13 Q7T0T0	Q7T0T0 xenopus lae
5	728	49.1	272	11 Q9DC75	Q9DC75 mus musculus
6	716.5	48.3	271	4 Q9BWP8	Q9BWP8 homo sapien
7	634	42.7	268	4 Q7ZEN1	Q7ZEN1 homo sapien
8	344.5	23.2	369	6 Q863A1	Q863A1 bos taurus
9	338.5	22.8	378	6 Q9N1X4	Q9N1X4 sus scrofa
10	337	22.7	254	13 Q98TA4	Q98TA4 gallus gall
11	337	22.7	375	4 Q86YK9	Q86YK9 homo sapien
12	334.5	22.5	251	13 Q919Q8	Q919Q8 brachydanio
13	333	22.4	375	4 Q8TCD8	Q8TCD8 homo sapien
14	327.5	22.1	238	13 Q57451	Q57451 gallus gall
15	316	21.3	256	13 Q919Q9	Q919Q9 cyprinus ca
16	307	20.7	246	13 Q919Q7	Q919Q7 carassius a

ALIGNMENTS

RESULT 1

Q9Y6Z7 PRELIMINARY; PRT; 277 AA.
ID Q9Y6Z7
AC Q9Y6Z7;
DT 01-NOV-1999 (TREMELrel. 12, Created)
DT 01-NOV-1999 (TREMELrel. 12, Last sequence update)
DT 01-JUN-2003 (TREMELrel. 24, Last annotation update)
DE Collectin 34.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=99240768; PubMed=10224141;
RA Ohtani K., Suzuki Y., Eda S., Kawai T., Kase T., Yamazaki H.,
Keshi H., Sakai Y., Fukuchi A., Sakamoto T., Wakamiya N.;
RT "Molecular cloning of a novel collectin from liver (CL-Li).";
RL J. Biol. Chem. 274:13681-13689 (1999).
DR EMBL; AB002631; BAA81747.1;
DR HSSP; P19999; 2MSB.
DR Genew; HGNC:2220; COLEC10.
DR GO; GO:0005737; C:cytoplasm; TAS.
DR GO; GO:0005530; F:lectin; TAS.
DR InterPro; IPR008160; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF01391; Collagen; 1.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS00641; C-TYPE LECTIN 2; 1.
SQ SEQUENCE 277 AA; 30733 MW; 9736861C8BD5C25 CRC64;

Query Match 100.0%; Score 1484; DB 4; Length 277;
Best Local Similarity 100.0%; Pred. No. 2.6e-129;
Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MNGFASLLRRNQFILLVFLQSLGLDIDSRPTAEVCATHITSPGKGDGKDPGE 60

|||||

[illegible]

```

RESULT 13
#OTCD8      PRELIMINARY;      PRT;      375 AA.
C Q8TCB8;
C Q8TCB8;
T 01-JUN-2002 (T-EMBLrel. 21, Created)
T 01-JUN-2002 (T-EMBLrel. 21, Last sequence update)
T 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
E Hypothetical protein.
S Homo sapiens (Human).
C Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
C Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
X NCBI_TaxID=9606;
N [1]
P SEQUENCE FROM N.A.
C TISSUE=Lung;
A Strausberg R.;
L Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
R EMBL; BC022318; AAB94071.1; -.
R GO; GO:0005529; F:sugar binding; IEA.
R InterPro; IPR008161; Clg_helix.
R InterPro; IPR008160; Collagen.
R InterPro; IPR001304; Lectin_C.
R Pfam; PF01391; Collagen; 1.
R Pfam; PF00059; Lectin_C; 1.
R ProDom; PD000007; Clg_helix; 1.
R SMART; SM00034; CLECT; 1.
R PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
R PROSITE; PS00411; C_TYPE_LECTIN_2; 1.
K Collagen; Lectin.
FT NON TER 238
KW SEQUENCE 238 AA; 25645 MW; E5C9B5197AAB64E3 CRC64;
SQ
Query Match 22.1%; Score 327.5; DB 13; Length 238;
Best Local Similarity 32.1%; Pred. No. 3.6e-22;
Matches 80; Conservative 48; Mismatches 70; Indels 51; Gaps 12;
QY 39 CATHIS--PGKDD--GKGPGE--EGKHGVRMGPGIKGELGMDGRNGTGT 91
Db 24 CSAPAVNGLPGRDGRDGPGEGLRGLQGLPGKAGPQGLKGEV----- 71
QY 92 GPIGKKGDKGKGLL-----GIPGKAGTV--CDGVRKRVFGQGLDISIARLKTSMK 143
Db 72 GPQGXGQKGGGIVVTDLHRQITDLEAKIRVLEDDLSRYKKAL-----SLK 119
QY 144 FVKNVIAGIRETEEKYIVQEKYRSLTHCRIRGMLAMPKDEAANTLIADYVAKSG 203
Db 120 DVVNI-----GKMFVSTGKYNFEKGLKSLCAKAGSVLASPRNEAENTALKDLDPSS 172
QY 204 FRVTVGNDLEREGQYMTDNTPLQYNSWNEGPSPDYPCHEDCVEMLSGGRWNTDEC- 262
Db 173 --QAVIGLSDAQTEGRFMYLGGPL--TYSNWKPGEPNN--HKNECDCAVIEDSGKWNLDLCS 228
QY 263 HLTMYFVCE 271
Db 229 NSNIFICE 237
RESULT 15
Q919Q9      PRELIMINARY;      PRT;      256 AA.
AC Q919Q9;
DT 01-OCT-2000 (T-EMBLrel. 15, Created)
DT 01-OCT-2000 (T-EMBLrel. 15, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE Mannose binding-like lectin precursor.
GN MBL.
OS Cyprinus carpio (Common carp).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Cyprinus.
OX NCBI_TaxID=7962;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Liver;
RX MEDLINE=20456722; PubMed=11003389;
RA Vitved L., Holmskov U., Koch C., Teisner B., Hansen S., Skjold K.;
RT "The homologue of mannose-binding lectin in the carp family Cyprinidae
RT is expressed at high level in spleen, and the deduced primary
RT structure predicts affinity for galactose.";
RL Immunogenetics 51:955-964(2000).
DR EMBL; AF227737; AAF63468.1; -.
DR HSSP; P35247; 1B08.
DR GO; GO:0005529; F:sugar binding; IEA.
DR GO; GO:0007157; P:heterophilic cell adhesion; IEA.
DR InterPro; IPR008160; Collagen.
DR InterPro; IPR001304; Lectin_C.

```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

M protein - protein search, using sw model

on: February 24, 2004, 00:35:31 ; Search time 69 Seconds
(without alignments)
1134.285 Million cell updates/sec

itle: US-09-600-932-2
effect score: 1484
equene: 1 MNGFASLLRRNQFILLVLF.....NDTECHLTMYFVCFIKKK 277

oring table: BLOSUM62

earched: 1586107 seqs, 282547505 residues

otal number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

ost-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

atabase : A_Geneseq_29Jan04:*

- 1: Geneseq1980s:*
- 2: Geneseq1990s:*
- 3: Geneseq2000s:*
- 4: Geneseq2001s:*
- 5: Geneseq2002s:*
- 6: Geneseq2003as:*
- 7: Geneseq2003Bs:*
- 8: Geneseq2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Query Match	Length	DB ID	Description
1	1484	100.0	277	2	AAY25518 Human col
2	1472	99.2	277	2	AAY41698 Human PRO
3	1472	99.2	277	3	AAB44254 Human PRO
4	1472	99.2	277	4	AAB44254 Human PRO
5	1472	99.2	277	6	AAB29073 Human PRO
6	1472	99.2	277	6	ABU58449 Human PRO
7	1472	99.2	277	6	ABU87997 Novel hum
8	1472	99.2	277	6	ABU84312 Human sec
9	1472	99.2	277	6	ABR66186 Human sec
10	1472	99.2	277	6	ABR65576 Human sec
11	1472	99.2	277	6	ABU99516 Human sec
12	1472	99.2	277	6	ABU82755 Human PRO
13	1472	99.2	277	6	ABU99876 Human hum
14	1472	99.2	277	6	ABR68125 Human sec
15	1472	99.2	277	6	ABU96178 Novel hum
16	1472	99.2	277	6	ABU92609 Human sec
17	1472	99.2	277	6	ABO08686 Human sec
18	1472	99.2	277	6	ABO02738 Human sec
19	1472	99.2	277	6	ABR74892 Human sec
20	1472	99.2	277	6	ABR94654 Human sec
21	1472	99.2	277	6	ABO25200 Novel hum
22	1472	99.2	277	6	ABU85627 Human PRO
23	1472	99.2	277	6	ABU98787 Novel hum
24	1472	99.2	277	6	ABU98002 Novel hum
25	1472	99.2	277	6	ABU91708 Novel hum
					ABU72206 Novel hum

26	1472	99.2	277	6	ABU89401 Human PRO
27	1472	99.2	277	6	ABU86242 Human sec
28	1472	99.2	277	6	ABU67455 Human sec
29	1472	99.2	277	6	ABU80483 Human PRO
30	1472	99.2	277	6	ABR99401 Human sec
31	1472	99.2	277	6	ABR98791 Human sec
32	1472	99.2	277	6	ABO16314 Human sec
33	1472	99.2	277	6	ABR92214 Human sec
34	1472	99.2	277	6	ABO18855 Human sec
35	1472	99.2	277	6	ABR78276 Human sec
36	1472	99.2	277	6	ABU85012 Novel hum
37	1472	99.2	277	6	ABO00151 Novel hum
38	1472	99.2	277	6	ABO11483 Human sec
39	1472	99.2	277	6	ABO02128 Human sec
40	1472	99.2	277	6	ABU88702 Novel hum
41	1472	99.2	277	6	ABU83397 Human sec
42	1472	99.2	277	6	ABO06198 Novel hum
43	1472	99.2	277	6	ABR59234 Human sec
44	1472	99.2	277	6	ABO09296 Human sec
45	1472	99.2	277	6	ABO19160 Novel hum

ALIGNMENTS

RESULT 1
AAY25518
ID AAY25518 standard; protein; 277 AA.
XX
AC AAY25518;
XX
DT 30-SEP-1999 (first entry)
XX
DE Human collectin protein.
XX
KW Collectin; human; antibacterial; antiviral; treatment; infection.
XX
CS Homo sapiens.
XX
PN WO9937767-A1.
PD 29-JUL-1999.
XX
PF 24-JUL-1998; 98WO-JP003328.
XX
PR 23-JAN-1998; 98JP-00011281.
XX
(FUSO) FUSO PHARM IND LTD.
XX
PA Wakamiya N;
XX
DR WFI; 1999-458691/38.
XX
N-PSDB; AAX88323.
XX
New collectin protein of human origin and DNA encoding it.
XX
Claim 1; Page 42-44; 58pp; Japanese.
XX
This invention describes the isolation and characterisation of a novel human collectin protein and its encoding polynucleotide. The human collectin exhibits antibacterial and antiviral activity and can be used as an agent for the treatment of human bacterial and viral infections. This sequence represents the novel human collectin

SQ Sequence 277 AA;
Query Match 100.0%; Score 1484; DB 2; Length 277;
Best Local Similarity 100.0%; Pred.No. 5e-141;
Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MNGFASLLRRNQFILLVLFLLQIQSLGLDIDSRPTAEVCATHTISPGKDDGKGPGE 60
DB 1 MNGFASLLRRNQFILLVLFLLQIQSLGLDIDSRPTAEVCATHTISPGKDDGKGPGE 60

QY 61 EGKHGKVGKMGPKGKIGELGDMGDRGNTGKTCPIGKGDGKGEKGLGIPGKKGAGTVCD 120
 Db 61 EGKHGKVGKMGPKGKIGELGDMGDRGNTGKTCPIGKGDGKGEKGLGIPGKKGAGTVCD 120
 QY 121 CGRYKFKVQQLDISARLKTSMKFKVKNVIAGIRETEKFFYIVOEKKNYRESLTHCIRG 180
 Db 121 CGRYKFKVQQLDISARLKTSMKFKVKNVIAGIRETEKFFYIVOEKKNYRESLTHCIRG 180
 QY 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREQQYMTDNTPLQYNNWNEGEPS 240
 Db 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREQQYMTDNTPLQYNNWNEGEPS 240
 QY 241 DPYGHEDCEVMSLSSGRWNTDCHLTMYFVCFEIKKK 277
 Db 241 DPYGHEDCEVMSLSSGRWNTDCHLTMYFVCFEIKKK 277

RESULT 2
 AAY41698
 ID AAY41698 standard; protein; 277 AA.
 XX
 AC AAY41698;
 XX
 DT 07-DEC-1999 (first entry)
 XX
 DE Human PRO702 protein sequence.
 XX
 DE Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;
 KW probe; blood coagulation disorder; cancer; cellular adhesion disorder;
 KW secreted protein; transmembrane protein.
 XX
 OS Homo sapiens.
 XX
 XX WO9946281-A2.
 XX
 XX 16-SEP-1999.
 XX
 PF 08-MAR-1999; 99WO-US005028.
 XX
 PR 10-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077641P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 12-MAR-1998; 98US-0077791P.
 PR 13-MAR-1998; 98US-0078004P.
 PR 17-MAR-1998; 98US-0004020.
 PR 20-MAR-1998; 98US-0078886P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 20-MAR-1998; 98US-0078936P.
 PR 20-MAR-1998; 98US-0078939P.
 PR 25-MAR-1998; 98US-0079294P.
 PR 26-MAR-1998; 98US-0079656P.
 PR 27-MAR-1998; 98US-0079663P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079689P.
 PR 27-MAR-1998; 98US-0079728P.
 PR 27-MAR-1998; 98US-0079786P.
 PR 30-MAR-1998; 98US-0079920P.
 PR 30-MAR-1998; 98US-0079923P.
 PR 31-MAR-1998; 98US-0080105P.
 PR 31-MAR-1998; 98US-0080107P.
 PR 31-MAR-1998; 98US-0080165P.
 PR 31-MAR-1998; 98US-0080194P.
 PR 01-APR-1998; 98US-0080327P.
 PR 01-APR-1998; 98US-0080328P.
 PR 01-APR-1998; 98US-0080333P.
 PR 01-APR-1998; 98US-0080334P.
 PR 08-APR-1998; 98US-0081049P.
 PR 08-APR-1998; 98US-0081070P.
 PR 08-APR-1998; 98US-0081071P.
 PR 09-APR-1998; 98US-0081195P.
 PR 09-APR-1998; 98US-0081203P.

PR 09-APR-1998; 98US-0081229P.
 PR 15-APR-1998; 98US-0081817P.
 PR 15-APR-1998; 98US-0081838P.
 PR 15-APR-1998; 98US-0081952P.
 PR 15-APR-1998; 98US-0081955P.
 PR 21-APR-1998; 98US-0082568P.
 PR 21-APR-1998; 98US-0082589P.
 PR 22-APR-1998; 98US-0082700P.
 PR 22-APR-1998; 98US-0082704P.
 PR 22-APR-1998; 98US-0082804P.
 PR 23-APR-1998; 98US-0082767P.
 PR 23-APR-1998; 98US-0082796P.
 PR 27-APR-1998; 98US-0083336P.
 PR 28-APR-1998; 98US-0083332P.
 PR 29-APR-1998; 98US-0083382P.
 PR 29-APR-1998; 98US-0083495P.
 PR 29-APR-1998; 98US-0083496P.
 PR 29-APR-1998; 98US-0083499P.
 PR 29-APR-1998; 98US-0083500P.
 PR 29-APR-1998; 98US-0083545P.
 PR 29-APR-1998; 98US-0083554P.
 PR 29-APR-1998; 98US-0083586P.
 PR 29-APR-1998; 98US-0083599P.
 PR 30-APR-1998; 98US-0083742P.
 PR 05-MAY-1998; 98US-0084366P.
 PR 06-MAY-1998; 98US-0084414P.
 PR 06-MAY-1998; 98US-0084441P.
 PR 07-MAY-1998; 98US-0084598P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 07-MAY-1998; 98US-0084627P.
 PR 07-MAY-1998; 98US-0084637P.
 PR 07-MAY-1998; 98US-0084639P.
 PR 07-MAY-1998; 98US-0084640P.
 PR 07-MAY-1998; 98US-0084643P.
 PR 13-MAY-1998; 98US-0085323P.
 PR 13-MAY-1998; 98US-0085338P.
 PR 13-MAY-1998; 98US-0085339P.
 PR 15-MAY-1998; 98US-0085573P.
 PR 15-MAY-1998; 98US-0085580P.
 PR 15-MAY-1998; 98US-0085582P.
 PR 15-MAY-1998; 98US-0085689P.
 PR 15-MAY-1998; 98US-0085697P.
 PR 15-MAY-1998; 98US-0085700P.
 PR 15-MAY-1998; 98US-0085704P.
 PR 18-MAY-1998; 98US-0086023P.
 PR 22-MAY-1998; 98US-0086392P.
 PR 22-MAY-1998; 98US-0086414P.
 PR 22-MAY-1998; 98US-0086430P.
 PR 22-MAY-1998; 98US-0086486P.
 PR 28-MAY-1998; 98US-0087098P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 28-MAY-1998; 98US-0087208P.
 PR 30-JUL-1998; 98US-0094651P.
 PR 11-SEP-1998; 98US-0100038P.

(GETH) GENENTECH INC.

Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;

WPI; 1999-551358/46.

N-PSDB; AAZ33973.

New secreted and transmembrane polypeptides and their polynucleotides,
 useful for treating blood coagulation disorders, cancers and cellular
 adhesion disorders.

Claim 12; Fig 37; 530pp; English.

The present invention describes secreted and transmembrane polypeptides
 and their polynucleotides. The nucleotide sequences are useful as sources
 of probes, primers, for chromosome mapping, and for generation of
 antisense sequences. They can also be used to create transgenic animals.

The proteins can be used to treat a variety of diseases and disorders, depending on their function. Diseases that may be treated include blood coagulation disorders, cancers and cellular adhesion disorders. They may also be used to raise antibodies. AA233891 to AA234338, and AA41685 to AA41774 represent polynucleotide and polypeptide sequence given in the exemplification of the present invention

Sequence 277 AA;

Query Match 99.2%; Score 1472; DB 2; Length 277;
Best Local Similarity 99.3%; Pred. No. 8.1e-140;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

1 MNGFASLLRRNQFILLVFLFLLQISGLDIDSRPTAEVCATHISPGKGDGKGDGPG 60
1 MNGFASLLRRNQFILLVFLFLLQISGLDIDSRPTAEVCATHISPGKGDGKGDGPG 60

61 EKGKGVGRMGPKIGKELGDMGDRNIGTKTPTGKKGDKGKGLLIPGKKGAGTVC 120
61 EKGKGVGRMGPKIGKELGDMGDRNIGTKTPTGKKGDKGKGLLIPGKKGAGTVC 120

121 CGRYKFKVGQDLSIARLKTSMKFKVNIAGIRETEKFFYIVQEEKNYRESLTHCRIRG 180
121 CGRYKFKVGQDLSIARLKTSMKFKVNIAGIRETEKFFYIVQEEKNYRESLTHCRIRG 180

181 GMLAMPKDEAANTLIADYVAKSGFFRVFVGNLDERGQYMTDNTPLQYNSWNNEGEP 240
181 GMLAMPKDEAANTLIADYVAKSGFFRVFVGNLDERGQYMTDNTPLQYNSWNNEGEP 240

241 DPYGHEDCVEMLSGRWNTDTECHLTMVFCFFIKKK 277
241 DPYGHEDCVEMLSGRWNTDTECHLTMVFCFFIKKK 277

RESULT 3
AB44254
AAB44254 standard; protein; 277 AA.
AAB44254;
08-FEB-2001 (first entry)
Human PRO702 (UNQ366) protein sequence SEQ ID NO:97.
Human; secreted protein; transmembrane protein; PRO; EST; cytotstatic;
expressed sequence tag; detection; cancer.
Homo sapiens.
WO200053756-A2.
14-SEP-2000.
18-FEB-2000; 2000WO-US004341.
08-MAR-1999; 99WO-US005028.
12-MAR-1999; 99US-0123957P.
29-MAR-1999; 99US-0126773P.
21-APR-1999; 99US-0130232P.
28-APR-1999; 99US-0131445P.
14-MAY-1999; 99US-0134287P.
23-JUN-1999; 99US-0141037P.
26-JUL-1999; 99US-0145698P.
29-OCT-1999; 99US-0162506P.
30-NOV-1999; 99WO-US028313.
02-DEC-1999; 99WO-US028551.
16-DEC-1999; 99WO-US030095.
30-DEC-1999; 99WO-US031243.
05-JAN-2000; 2000WO-US000219.
06-JAN-2000; 2000WO-US000277.
06-JAN-2000; 2000WO-US000376.

XX (GETH) GENENTECH INC.
PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX WPI. 2000-611443/58.
DR N-PSDB; AAC78480.
XX Novel PRO polypeptides and polynucleotides used in detection methods, to
PT target bioactive molecules to specific cells, and to modulate cellular
PT activities.
XX Claim 12; Fig 37; 636pp; English.
XX AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence
CC tag) sequences which encode secreted or transmembrane PRO polypeptides.
CC The PRO polynucleotides and polypeptides have cytotstatic activity. The
CC polynucleotides and polypeptides can be used for detecting the presence
CC of PRO polypeptides in samples, for linking bioactive molecules to cells
CC and for modulating biological activities of cells, using the polypeptides
CC for specific targeting. The polypeptide targeting, can be used to kill the
CC target cells, e.g. for the treatment of cancers. The polypeptide pairs
CC provide specific targeting of bioactive molecules to cells. AAC78600 to
CC AAC78987 represent PCR primers and probes used in the isolation of the
CC PRO polynucleotide sequences
XX Sequence 277 AA;

Query Match 99.2%; Score 1472; DB 3; Length 277;
Best Local Similarity 99.3%; Pred. No. 8.1e-140;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

1 MNGFASLLRRNQFILLVFLFLLQISGLDIDSRPTAEVCATHISPGKGDGKGDGPG 60
1 MNGFASLLRRNQFILLVFLFLLQISGLDIDSRPTAEVCATHISPGKGDGKGDGPG 60

61 EKGKGVGRMGPKIGKELGDMGDRNIGTKTPTGKKGDKGKGLLIPGKKGAGTVC 120
61 EKGKGVGRMGPKIGKELGDMGDRNIGTKTPTGKKGDKGKGLLIPGKKGAGTVC 120

121 CGRYKFKVGQDLSIARLKTSMKFKVNIAGIRETEKFFYIVQEEKNYRESLTHCRIRG 180
121 CGRYKFKVGQDLSIARLKTSMKFKVNIAGIRETEKFFYIVQEEKNYRESLTHCRIRG 180

181 GMLAMPKDEAANTLIADYVAKSGFFRVFVGNLDERGQYMTDNTPLQYNSWNNEGEP 240
181 GMLAMPKDEAANTLIADYVAKSGFFRVFVGNLDERGQYMTDNTPLQYNSWNNEGEP 240

241 DPYGHEDCVEMLSGRWNTDTECHLTMVFCFFIKKK 277
241 DPYGHEDCVEMLSGRWNTDTECHLTMVFCFFIKKK 277

RESULT 4
AAU29073
AAU29073 standard; protein; 277 AA.
XX AAU29073;
AC AAU29073;
XX 18-DEC-2001 (first entry)
XX Human PRO polypeptide sequence #50.
XX PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
XX Homo sapiens.

XX WO200168848-A2.
 XX 20-SEP-2001.
 XX 28-FEB-2001; 2001WO-US006520.
 XX 01-MAR-2000; 2000WO-US005601.
 XX 02-MAR-2000; 2000WO-US005841.
 XX 03-MAR-2000; 2000US-0187202P.
 XX 06-MAR-2000; 2000US-0186968P.
 XX 14-MAR-2000; 2000US-0189320P.
 XX 14-MAR-2000; 2000US-0189328P.
 XX 15-MAR-2000; 2000WO-US006884.
 XX 21-MAR-2000; 2000US-0190828P.
 XX 21-MAR-2000; 2000US-0191007P.
 XX 21-MAR-2000; 2000US-0191048P.
 XX 21-MAR-2000; 2000US-0191314P.
 XX 28-MAR-2000; 2000US-0192655P.
 XX 29-MAR-2000; 2000US-0193032P.
 XX 29-MAR-2000; 2000US-0193053P.
 XX 30-MAR-2000; 2000WO-US008439.
 XX 04-APR-2000; 2000US-019449P.
 XX 04-APR-2000; 2000US-0194647P.
 XX 11-APR-2000; 2000US-0195975P.
 XX 11-APR-2000; 2000US-0196000P.
 XX 11-APR-2000; 2000US-0196187P.
 XX 11-APR-2000; 2000US-0196690P.
 XX 11-APR-2000; 2000US-0196820P.
 XX 18-APR-2000; 2000US-0198121P.
 XX 18-APR-2000; 2000US-0198585P.
 XX 25-APR-2000; 2000US-0199397P.
 XX 25-APR-2000; 2000US-0199550P.
 XX 25-APR-2000; 2000US-0199654P.
 XX 03-MAY-2000; 2000US-0201516P.
 XX 17-MAY-2000; 2000WO-US013705.
 XX 22-MAY-2000; 2000WO-US014042.
 XX 30-MAY-2000; 2000WO-US014941.
 XX 02-JUN-2000; 2000WO-US015264.
 XX 05-JUN-2000; 2000US-0209832P.
 XX 28-JUL-2000; 2000WO-US020710.
 XX 22-AUG-2000; 2000US-00644848.
 XX 24-AUG-2000; 2000WO-US023328.
 XX 08-NOV-2000; 2000WO-US030952.
 XX 01-DEC-2000; 2000WO-US032678.
 XX 20-DEC-2000; 2000WO-US034956.
 XX (GETH) GENENTECH INC.

XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
 XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
 XX WPI: 2001-602746/68.
 XX N-PSDB; AAS45974.

XX Novel nucleic acids encoding PRO polypeptides, used to diagnose the
 XX presence of tumors, such as prostate and breast tumors, in mammals and to
 XX screen for modulators of the compounds.
 XX Claim 11; Fig 100; 774pp; English.

XX Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.
 XX The PRO polypeptides and their associated nucleic acids can be used to
 XX detect the presence of a tumour in a mammal by comparing the level of
 XX expression of a PRO polypeptide in a test sample of cells from the animal
 XX and a control sample of normal cells, whereby a higher level of
 XX expression in the test sample indicates the presence of a tumour in the
 XX mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
 XX and rabbits but are preferably human. The polypeptides can be used to
 XX stimulate tumour necrosis factor (TNF) alpha release from human blood,
 XX when contacted with it. A specific polypeptide can be used to stimulate
 XX the proliferation or differentiation of chondrocyte cells. The PRO
 XX proteins can be used to determine the presence of tumours and also

CC susceptibility to tumour development, particularly adrenal, lung, colon,
 CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
 CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
 CC can be used for genetic analysis of individuals with genetic disorders
 XX SQ Sequence 277 AA;

Query Match 99.2%; Score 1472; DB 4; Length 277;
 Best Local Similarity 99.3%; Pred. No. 8.1e-140;
 Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MNGFASLLRRNQIFLLVFLQISGLDIDSRPTAEVCATHTISPGPKGDDGKGDPE 60
 DB 1 MNGFASLLRRNQIFLLVFLQISGLDIDSRPTAEVCATHTISPGPKGDDGKGDPE 60
 QY 61 EGKHGKVGMRGPKIGKELGDMGDGRNIGHTGPIGKKGDKGKGLLGPCEKAGTVC 120
 DB 61 EGKHGKVGMRGPKIGKELGDMGDGRNIGHTGPIGKKGDKGKGLLGPCEKAGTVC 120
 QY 121 CGYRKFEVGLDISIARLKTSKMFVNVIAGIRETEEKFYIVQEEKNYRESLTHCRIG 180
 DB 121 CGYRKFEVGLDISIARLKTSKMFVNVIAGIRETEEKFYIVQEEKNYRESLTHCRIG 180
 QY 181 GMLAMPKDEAANTLIADYVAKSGFERVFGVNDLREGOYMTDNTPLONYSNWNEGPS 240
 DB 181 GMLAMPKDEAANTLIADYVAKSGFERVFGVNDLREGOYMTDNTPLONYSNWNEGPS 240
 QY 241 DPYGHEDCVEMLSGRWNDECHLTWYFVCEFIKXXX 277
 DB 241 DPYGHEDCVEMLSGRWNDECHLTWYFVCEFIKXXX 277

RESULT 5

ABUS8449
 ID ABUS8449 standard; protein; 277 AA.

XX AC ABUS8449;
 XX DT 15-APR-2003 (first entry)
 XX DE Human PRO polypeptide #50.
 XX KW Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
 XX dog; cat; cow; horse; sheep; pig; goat; rabbit; ADEPT;
 XX antibody-dependent enzyme mediated prodrug therapy.
 XX OS Homo sapiens.
 XX PN US2003027272-A1.
 XX PD 06-FEB-2003.
 XX PF 21-JUN-2002; 2002US-00176492.
 XX PR 18-SEP-1997; 97US-0059263P.
 XX PR 18-SEP-1997; 97US-0059266P.
 XX PR 17-OCT-1997; 97US-0062250P.
 XX PR 21-OCT-1997; 97US-0063486P.
 XX PR 24-OCT-1997; 97US-0063120P.
 XX PR 24-OCT-1997; 97US-0063121P.
 XX PR 28-OCT-1997; 97US-0063540P.
 XX PR 28-OCT-1997; 97US-0063541P.
 XX PR 28-OCT-1997; 97US-0063544P.
 XX PR 28-OCT-1997; 97US-0063564P.
 XX PR 29-OCT-1997; 97US-0063734P.
 XX PR 31-OCT-1997; 97US-0063870P.
 XX PR 31-OCT-1997; 97US-0064103P.
 XX PR 13-NOV-1997; 97US-0065311P.
 XX PR 21-NOV-1997; 97US-0066120P.
 XX PR 24-NOV-1997; 97US-0066466P.
 XX PR 24-NOV-1997; 97US-0066772P.
 XX PR 11-DEC-1997; 97US-0069335P.
 XX PR 12-DEC-1997; 97US-00694425P.

R 17-DEC-1997; 97US-0069870P.
R 18-DEC-1997; 97US-0068017P.
R 10-MAR-1998; 98US-0077450P.
R 11-MAR-1998; 98US-0077632P.
R 11-MAR-1998; 98US-0077643P.
R 20-MAR-1998; 98US-0078886P.
R 20-MAR-1998; 98US-0078939P.
R 27-MAR-1998; 98US-0079664P.
R 27-MAR-1998; 98US-0079786P.
R 31-MAR-1998; 98US-0080107P.
R 31-MAR-1998; 98US-0080194P.
R 01-APR-1998; 98US-0080327P.
R 01-APR-1998; 98US-0080333P.
R 08-APR-1998; 98US-0081049P.
R 08-APR-1998; 98US-0081070P.
R 09-APR-1998; 98US-0081195P.
R 15-APR-1998; 98US-0081838P.
R 21-APR-1998; 98US-0082568P.
R 21-APR-1998; 98US-0082569P.
R 22-APR-1998; 98US-0082704P.
R 22-APR-1998; 98US-0082797P.
R 28-APR-1998; 98US-0083322P.
R 29-APR-1998; 98US-0083495P.
R 29-APR-1998; 98US-0083498P.
R 29-APR-1998; 98US-0083499P.
R 29-APR-1998; 98US-0083559P.
R 05-MAY-1998; 98US-0084366P.
R 06-MAY-1998; 98US-0084414P.
R 07-MAY-1998; 98US-0084639P.
R 07-MAY-1998; 98US-0084640P.
R 07-MAY-1998; 98US-0084643P.
R 15-MAY-1998; 98US-0085579P.
R 15-MAY-1998; 98US-0085580P.
R 15-MAY-1998; 98US-0085582P.
R 15-MAY-1998; 98US-0085700P.
R 18-MAY-1998; 98US-0086023P.
R 22-MAY-1998; 98US-0086392P.
R 22-MAY-1998; 98US-0086486P.
R 28-MAY-1998; 98US-0087098P.
R 28-MAY-1998; 98US-0087208P.
R 02-JUN-1998; 98US-0087609P.
R 02-JUN-1998; 98US-0087759P.
R 03-JUN-1998; 98US-0087827P.
R 04-JUN-1998; 98US-0088025P.
R 04-JUN-1998; 98US-0088028P.
R 04-JUN-1998; 98US-0088029P.
R 04-JUN-1998; 98US-0088033P.
R 04-JUN-1998; 98US-0088326P.
R 05-JUN-1998; 98US-0088167P.
R 05-JUN-1998; 98US-0088202P.
R 05-JUN-1998; 98US-0088212P.
R 05-JUN-1998; 98US-0088217P.
R 09-JUN-1998; 98US-0088655P.
R 10-JUN-1998; 98US-0088722P.
R 10-JUN-1998; 98US-0088738P.
R 10-JUN-1998; 98US-0088740P.
R 10-JUN-1998; 98US-0088811P.
R 10-JUN-1998; 98US-0088824P.
R 10-JUN-1998; 98US-0088825P.
R 10-JUN-1998; 98US-0088826P.
R 11-JUN-1998; 98US-0088861P.
R 11-JUN-1998; 98US-0088863P.
R 11-JUN-1998; 98US-0088876P.
R 12-JUN-1998; 98US-0089090P.
R 12-JUN-1998; 98US-0089105P.
R 16-JUN-1998; 98US-0089512P.
R 16-JUN-1998; 98US-0089514P.
R 17-JUN-1998; 98US-0089538P.
R 17-JUN-1998; 98US-0089598P.
R 17-JUN-1998; 98US-0089653P.
R 18-JUN-1998; 98US-0089908P.
R 19-JUN-1998; 98US-0089952P.
R 22-JUN-1998; 98US-0090246P.
R 22-JUN-1998; 98US-0090252P.
R 22-JUN-1998; 98US-0090254P.
R 24-JUN-1998; 98US-0090435P.
R 24-JUN-1998; 98US-0090444P.
R 24-JUN-1998; 98US-0090461P.
R 24-JUN-1998; 98US-0090535P.
R 24-JUN-1998; 98US-0090540P.
R 25-JUN-1998; 98US-0090676P.
R 25-JUN-1998; 98US-0090678P.
R 25-JUN-1998; 98US-0090688P.
R 25-JUN-1998; 98US-0090690P.
R 25-JUN-1998; 98US-0090694P.
R 25-JUN-1998; 98US-0090695P.
R 26-JUN-1998; 98US-0090696P.
R 26-JUN-1998; 98US-00105413.
R 26-JUN-1998; 98US-0090862P.
R 26-JUN-1998; 98US-0090863P.
R 26-JUN-1998; 98US-0091010P.
R 01-JUL-1998; 98US-0091359P.
R 01-JUL-1998; 98US-0091544P.
R 02-JUL-1998; 98US-0091478P.
R 02-JUL-1998; 98US-0091486P.
R 02-JUL-1998; 98US-0091626P.
R 02-JUL-1998; 98US-0091628P.
R 02-JUL-1998; 98US-0091632P.
R 04-JUL-1998; 98US-0094006P.
R 10-AUG-1998; 98US-0095998P.
R 10-AUG-1998; 98US-0096012P.
R 17-AUG-1998; 98US-0096757P.
R 17-AUG-1998; 98US-0096766P.
R 17-AUG-1998; 98US-0096867P.
R 17-AUG-1998; 98US-0096891P.
R 18-AUG-1998; 98US-0096897P.
R 18-AUG-1998; 98US-0096949P.
R 18-AUG-1998; 98US-0096959P.
R 18-AUG-1998; 98US-0097032P.
R 26-AUG-1998; 98US-0097952P.
R 26-AUG-1998; 98US-0097954P.
R 26-AUG-1998; 98US-0097955P.
R 26-AUG-1998; 98US-0097971P.
R 26-AUG-1998; 98US-0097974P.
R 01-SEP-1998; 98US-0098716P.
R 01-SEP-1998; 98US-0098723P.
R 02-SEP-1998; 98US-0098803P.
R 02-SEP-1998; 98US-0098821P.
R 09-SEP-1998; 98US-0098843P.
R 10-SEP-1998; 98US-0099602P.
R 10-SEP-1998; 98US-0099741P.
R 10-SEP-1998; 98US-0099754P.
R 10-SEP-1998; 98US-0099763P.
R 10-SEP-1998; 98US-0099812P.
R 15-SEP-1998; 98US-0100388P.
R 16-SEP-1998; 98US-0100662P.
R 16-SEP-1998; 98US-0100664P.
R 16-SEP-1998; 98US-0101751P.
R 16-SEP-1998; 98US-0101751P.
R 17-SEP-1998; 98US-01019330.
R 17-SEP-1998; 98US-0100684P.
R 17-SEP-1998; 98US-0100684P.
R 17-SEP-1998; 98US-0100919P.
R 17-SEP-1998; 98US-0100930P.
R 18-SEP-1998; 98US-0100849P.
R 18-SEP-1998; 98US-0101014P.
R 18-SEP-1998; 98US-0101068P.
R 23-SEP-1998; 98US-0101471P.
R 23-SEP-1998; 98US-0101472P.
R 23-SEP-1998; 98US-0101475P.
R 23-SEP-1998; 98US-0101477P.
R 24-SEP-1998; 98US-0101738P.
R 24-SEP-1998; 98US-0101739P.
R 24-SEP-1998; 98US-0101743P.

```
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 99.2%; Score 1472; DB 6; Length 277;
Best Local Similarity 99.3%; Pred. No. 8.1e-140;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNGFASLLRRNQFILLVFLLIQIQLGLDIDSRPTAEVCATHTISPGKGDGKDPGE 60
Db 1 MNGFASLLRRNQFILLVFLLIQIQLGLDIDSRPTAEVCATHTISPGKGDGKDPGE 60
QY 61 EKHGKVGKRGPKGKGBELGDMGRGNIGKTGPIGKKGDKGKGLGIPGKKGAGTVCD 120
Db 61 EKHGKVGKRGPKGKGBELGDMGRGNIGKTGPIGKKGDKGKGLGIPGKKGAGTVCD 120
QY 121 CORYKFKVQLDISARLKTSMKFFVNVIAGIRETEKFFYIVOEKKNYRESLTHCRIRG 180
Db 121 CORYKFKVQLDISARLKTSMKFFVNVIAGIRETEKFFYIVOEKKNYRESLTHCRIRG 180
QY 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLEREGQYMTDNTPLQYNNWGEPS 240
Db 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLEREGQYMTDNTPLQYNNWGEPS 240
QY 241 DPYGHEDCVEMLSGRWNTDTECHLTMYFVCFEIKKK 277
Db 241 DPYGHEDCVEMLSGRWNTDTECHLTMYFVCFEIKKK 277

RESULT 6
ID ABU87997 standard; protein; 277 AA.
XX
AC ABU87997;
XX
DT 07-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO702.
XX
KW Human; secreted and transmembrane protein; PRO; gene therapy;
KW tumour necrosis factor-alpha release; TNF-alpha release;
KW chondrocyte proliferation; chondrocyte differentiation; tumour;
KW adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.
XX
PN US2003032127-A1.
XX
PD 13-FEB-2003.
XX
XX
XX 26-JUN-2002; 2002US-00183012.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.

PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 20-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078866P.
PR 27-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 31-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 01-APR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 08-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 09-APR-1998; 98US-0081070P.
PR 15-APR-1998; 98US-0081195P.
PR 21-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 22-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 28-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 05-MAY-1998; 98US-0083559P.
PR 06-MAY-1998; 98US-0084366P.
PR 07-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 15-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 18-MAY-1998; 98US-0085700P.
PR 22-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 28-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 02-JUN-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 03-JUN-1998; 98US-0087759P.
PR 04-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 05-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 09-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088844P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
```

R	11-JUN-1998;	98US-0088876P.	PR	17-SEP-1998;	98US-0100930P.	
R	12-JUN-1998;	98US-0089090P.	PR	18-SEP-1998;	98US-0100849P.	
R	12-JUN-1998;	98US-0089105P.	PR	18-SEP-1998;	98US-0101014P.	
R	16-JUN-1998;	98US-0089512P.	PR	23-SEP-1998;	98US-0101068P.	
R	16-JUN-1998;	98US-0089514P.	PR	23-SEP-1998;	98US-0101471P.	
R	17-JUN-1998;	98US-0089538P.	PR	23-SEP-1998;	98US-0101472P.	
R	17-JUN-1998;	98US-0089598P.	PR	23-SEP-1998;	98US-0101475P.	
R	17-JUN-1998;	98US-0089653P.	PR	23-SEP-1998;	98US-0101477P.	
R	18-JUN-1998;	98US-0089908P.	PR	24-SEP-1998;	98US-0101738P.	
R	19-JUN-1998;	98US-0089952P.	PR	24-SEP-1998;	98US-0101739P.	
R	22-JUN-1998;	98US-0090246P.	PR	24-SEP-1998;	98US-0101743P.	
R	22-JUN-1998;	98US-0090252P.	PR	24-SEP-1998;	98US-0101922P.	
R	22-JUN-1998;	98US-0090254P.	PR	25-SEP-1998;	98US-0101786P.	
R	24-JUN-1998;	98US-0090429P.	PR	29-SEP-1998;	98US-0102207P.	
R	24-JUN-1998;	98US-0090435P.	PR	29-SEP-1998;	98US-0102240P.	
R	24-JUN-1998;	98US-0090444P.	PR	29-SEP-1998;	98US-0102330P.	
R	24-JUN-1998;	98US-0090461P.	PR	29-SEP-1998;	98US-0102331P.	
R	24-JUN-1998;	98US-0090535P.	PR	30-SEP-1998;	98US-0102487P.	
R	24-JUN-1998;	98US-0090540P.	PR	30-SEP-1998;	98US-0102570P.	
R	25-JUN-1998;	98US-0090676P.	PR	30-SEP-1998;	98US-0102571P.	
R	25-JUN-1998;	98US-0090678P.	PR	01-OCT-1998;	98US-0102684P.	
R	25-JUN-1998;	98US-0090688P.	PR	01-OCT-1998;	98US-0102687P.	
R	25-JUN-1998;	98US-0090690P.	PR	02-OCT-1998;	98US-0102985P.	
R	25-JUN-1998;	98US-0090694P.	PR	06-OCT-1998;	98US-0103258P.	
R	25-JUN-1998;	98US-0090695P.				
R	25-JUN-1998;	98US-0090696P.				
R	26-JUN-1998;	98US-00105413.				
R	26-JUN-1998;	98US-0090862P.				
R	26-JUN-1998;	98US-0090863P.				
R	26-JUN-1998;	98US-0091010P.				
R	01-JUL-1998;	98US-0091335P.				
R	01-JUL-1998;	98US-0091544P.				
R	02-JUL-1998;	98US-0091478P.				
R	02-JUL-1998;	98US-0091486P.				
R	02-JUL-1998;	98US-0091626P.				
R	02-JUL-1998;	98US-0091628P.				
R	02-JUL-1998;	98US-0091632P.				
R	24-JUL-1998;	98US-0094006P.				
R	04-AUG-1998;	98US-0095282P.				
R	10-AUG-1998;	98US-0095598P.				
R	10-AUG-1998;	98US-0096012P.				
R	17-AUG-1998;	98US-0096575P.				
R	17-AUG-1998;	98US-0096766P.				
R	17-AUG-1998;	98US-0096867P.				
R	17-AUG-1998;	98US-0096891P.				
R	17-AUG-1998;	98US-0096897P.				
R	18-AUG-1998;	98US-0096949P.				
R	18-AUG-1998;	98US-0096959P.				
R	18-AUG-1998;	98US-0097022P.				
R	26-AUG-1998;	98US-0097952P.				
R	26-AUG-1998;	98US-0097954P.				
R	26-AUG-1998;	98US-0097955P.				
R	26-AUG-1998;	98US-0097971P.				
R	26-AUG-1998;	98US-0097974P.				
R	26-AUG-1998;	98US-0098014P.				
R	01-SEP-1998;	98US-0098716P.				
R	01-SEP-1998;	98US-0098723P.				
R	02-SEP-1998;	98US-0098803P.				
R	02-SEP-1998;	98US-0098821P.				
R	02-SEP-1998;	98US-0098843P.				
R	09-SEP-1998;	98US-0099602P.				
R	10-SEP-1998;	98US-0099741P.				
R	10-SEP-1998;	98US-0099754P.				
R	10-SEP-1998;	98US-0099763P.				
R	10-SEP-1998;	98US-0099812P.				
R	15-SEP-1998;	98US-0100388P.				
R	16-SEP-1998;	98US-0100662P.				
R	16-SEP-1998;	98US-0100664P.				
R	16-SEP-1998;	98US-0101751P.				
R	16-SEP-1998;	98US-01019330.				
R	17-SEP-1998;	98US-0100683P.				
R	17-SEP-1998;	98US-0100684P.				
R	17-SEP-1998;	98US-0100919P.				
Query Match						99.2%; Score 1472; DB 6; Length 277;
Best Local Similarity						99.3%; Pred. No. 8.1e-140;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;						
QY	1	MNGFASLLRRNQFILLVFLIQISGLDIDSRPTARVCATHTISPGPKGDDGEGDPGE	60			
DB	1	MNGFASLLRRNQFILLVFLIQISGLDIDSRPTARVCATHTISPGPKGDDGEGDPGE	60			
QY	61	EGKKGKVGKMGPKGKIGELGDMGDRGNIGKTGPGKKGDKGKGLLIGPKGKAGTVCD	120			
DB	61	EGKKGKVGKMGPKGKIGELGDMGDRGNIGKTGPGKKGDKGKGLLIGPKGKAGTVCD	120			
QY	121	CGRYKFKVQGLDISIARLKTSMKFKVKNVIAGIRETEKFFYIVQEEKNVRESLTHCRIRG	180			
DB	121	CGRYKFKVQGLDISIARLKTSMKFKVKNVIAGIRETEKFFYIVQEEKNVRESLTHCRIRG	180			
QY	181	GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREGQWFTDNTPLQNSNNNEGPS	240			
DB	181	GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREGQWFTDNTPLQNSNNNEGPS	240			
QY	241	DPYGHEDCVELSSGRWNTDTECHLTMYFVCFEIKKKK	277			
DB	241	DPYGHEDCVELSSGRWNTDTECHLTMYFVCFEIKKKK	277			
RESULT 7						
ABU84312						
ID	ABU84312 standard; protein; 277 AA.					
XX	ABU84312;					
XX	02-AUG-2003 (first entry)					
DT	Human secreted/transmembrane protein (PRO) #50.					
XX	Human; secreted and transmembrane protein; PRO; TNF-alpha;					
KW	tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;					
XX	tissue typing.					
OS	Homo sapiens.					
XX	US2003032112-A1.					
PN	13-FEB-2003.					
XX	21-JUN-2002; 2002US-00176756.					
XX	18-SEP-1997; 97US-0059263P.					

PR	03-JUN-1998,	98US-00878272P,
PR	04-JUN-1998,	98US-00880202S,
PR	04-JUN-1998,	98US-00880202B,
PR	04-JUN-1998,	98US-00880202P,
PR	04-JUN-1998,	98US-00880334P,
PR	04-JUN-1998,	98US-00883262P,
PR	05-JUN-1998,	98US-00891677P,
PR	05-JUN-1998,	98US-00892020P,
PR	05-JUN-1998,	98US-00892112P,
PR	05-JUN-1998,	98US-00892117P,
PR	09-JUN-1998,	98US-00886553S,
PR	10-JUN-1998,	98US-00887222P,
PR	10-JUN-1998,	98US-00887308P,
PR	10-JUN-1998,	98US-00887404P,
PR	10-JUN-1998,	98US-00898114P,
PR	10-JUN-1998,	98US-00898214P,
PR	10-JUN-1998,	98US-00888252P,
PR	11-JUN-1998,	98US-00888641P,
PR	11-JUN-1998,	98US-00888633P,
PR	11-JUN-1998,	98US-00888762P,
PR	12-JUN-1998,	98US-00890909P,
PR	12-JUN-1998,	98US-00893105P,
PR	16-JUN-1998,	98US-00895112P,
PR	16-JUN-1998,	98US-00895141P,
PR	17-JUN-1998,	98US-00895338P,
PR	17-JUN-1998,	98US-00895892P,
PR	17-JUN-1998,	98US-00895935P,
PR	17-JUN-1998,	98US-00896553P,
PR	18-JUN-1998,	98US-00899009P,
PR	19-JUN-1998,	98US-00899522P,
PR	22-JUN-1998,	98US-00902462P,
PR	22-JUN-1998,	98US-00902522P,
PR	22-JUN-1998,	98US-00903254P,
PR	24-JUN-1998,	98US-00904292P,
PR	24-JUN-1998,	98US-00904332P,
PR	24-JUN-1998,	98US-00904442P,
PR	24-JUN-1998,	98US-00904616P,
PR	24-JUN-1998,	98US-00905335P,
PR	24-JUN-1998,	98US-00905404P,
PR	25-JUN-1998,	98US-00906762P,
PR	25-JUN-1998,	98US-00906768P,
PR	25-JUN-1998,	98US-00906880P,
PR	25-JUN-1998,	98US-00906889P,
PR	25-JUN-1998,	98US-00906934P,
PR	25-JUN-1998,	98US-00906939P,
PR	25-JUN-1998,	98US-00906962P,
PR	26-JUN-1998,	98US-009105413,
PR	26-JUN-1998,	98US-00908622P,
PR	26-JUN-1998,	98US-00908633P,
PR	26-JUN-1998,	98US-00910104P,
PR	01-JUL-1998,	98US-00913359P,
PR	01-JUL-1998,	98US-00915443P,
PR	02-JUL-1998,	98US-00914788P,
PR	02-JUL-1998,	98US-00914862P,
PR	02-JUL-1998,	98US-00916262P,
PR	02-JUL-1998,	98US-00916282P,
PR	02-JUL-1998,	98US-00916322P,
PR	04-JUL-1998,	98US-00940066P,
PR	04-AUG-1998,	98US-00952822P,
PR	10-AUG-1998,	98US-00959982P,
PR	10-AUG-1998,	98US-00960122P,
PR	17-AUG-1998,	98US-00967575P,
PR	17-AUG-1998,	98US-00967662P,
PR	17-AUG-1998,	98US-00968672P,
PR	17-AUG-1998,	98US-00968914P,
PR	17-AUG-1998,	98US-00968977P,
PR	18-AUG-1998,	98US-00969494P,
PR	18-AUG-1998,	98US-00969592P,
PR	18-AUG-1998,	98US-00970222P,
PR	26-AUG-1998,	98US-00979522P,
PR	26-AUG-1998,	98US-00979552P,
PR	26-AUG-1998,	98US-00979715P,
PR	26-AUG-1998,	98US-00979717P,

PR	26-AUG-1998	98US-0097974P
PR	26-AUG-1998	98US-0098014P
PR	01-SEP-1998	98US-009816P
PR	01-SEP-1998	98US-009823P
PR	02-SEP-1998	98US-0098303P
PR	02-SEP-1998	98US-0098403P
PR	02-SEP-1998	98US-009843P
PR	03-SEP-1998	98US-0098443P
PR	03-SEP-1998	98US-0098602P
PR	10-SEP-1998	98US-0099741P
PR	10-SEP-1998	98US-0099754P
PR	10-SEP-1998	98US-0099763P
PR	10-SEP-1998	98US-0099812P
PR	15-SEP-1998	98US-0100388P
PR	15-SEP-1998	98US-0100626P
PR	15-SEP-1998	98US-0100664P
PR	15-SEP-1998	98US-0100751P
PR	16-SEP-1998	98NO-0501933O
PR	17-SEP-1998	98US-0100683P
PR	17-SEP-1998	98US-0100684P
PR	17-SEP-1998	98US-0100919P
PR	17-SEP-1998	98US-0100930P
PR	18-SEP-1998	98US-0100849P
PR	18-SEP-1998	98US-0101014P
PR	18-SEP-1998	98US-0101068P
PR	23-SEP-1998	98US-0101471P
PR	23-SEP-1998	98US-0101472P
PR	23-SEP-1998	98US-0101475P
PR	23-SEP-1998	98US-0101477P
PR	24-SEP-1998	98US-0101738P
PR	24-SEP-1998	98US-0101739P
PR	24-SEP-1998	98US-0101743P
PR	24-SEP-1998	98US-0101922P
PR	24-SEP-1998	98US-0101786P
PR	25-SEP-1998	98US-0103207P
PR	25-SEP-1998	98US-0103240P
PR	25-SEP-1998	98US-0103330P
PR	25-SEP-1998	98US-0103331P
PR	30-SEP-1998	98US-0103487P
PR	30-SEP-1998	98US-0103570P
PR	30-SEP-1998	98US-0103571P
PR	01-OCT-1998	98US-0103684P
PR	01-OCT-1998	98US-0103687P

Query Match 99.2%; Score 1472; DB 6; Length 277;

Best Local Similarity	99.3%;	Pred. No. 8.1e-140;	
Matches	275;	Conservative	1; Mismatches 1; Indels 0; Caps 0;

Qy	1	MNGFASLIRRNQFILLVLFLFIQISLGLDIDSRTAEVCATHITISPGPKDDGEKGDGPE	60
Db	1	MNGFASLIRRNQFILLVLFLFIQISLGLDIDSRTAEVCATHITISPGPKDDGEKGDGPE	60
Qy	61	EKGKGVGRMGPKGIKGBLGDWGDGRGNIGKTGPIKGKDGKGGKLLGIPEKKGAGTVCD	120
Db	61	EKGKGVGRMGPKGIKGBLGDWGDGRGNIGKTGPIKGKDGKGGKLLGIPEKKGAGTVCD	120
Qy	121	CGRYKRFVQGLDISIARLKTSMKVFQXNVIAGIRETEBKFYIVQEEKNYRESITHCRIIRG	180
Db	121	CGRYKRFVQGLDISIARLKTSMKVFQXNVIAGIRETEBKFYIVQEEKNYRESITHCRIIRG	180
Qy	181	GLMWPKDEAANTLIADYVAKSGGFRFPIGVNDLEREGQYMFDTNTPQNYSNWNGEPS	240
Db	181	GLMWPKDEAANTLIADYVAKSGGFRFPIGVNDLEREGQYMFDTNTPQNYSNWNGEPS	240
Qy	241	DPYGHEDCCEMLSSGRWNTDCHLTMTYFVCFIKKKK	277
Db	241	DPYGHEDCCEMLSSGRWNTDCHLTMTYFVCFIKKKK	277

RESULT 9
ABR65576
ID ABR65576 standard; protein; 277 AA.
XX
AC ABR65576;

RESIT. T. 9

ABR65576

ID ABR65576 standard; protein; 277 AA.

XX

AC ABR65576;

X 05-AUG-2003 (first entry)
T Human secreted polypeptide PRO702, SEQ ID NO:100.
E
X Human; PRO; secreted protein; transmembrane protein;
W extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
N chondrocyte; proliferation; differentiation; cartilage disorder;
M bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
M adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
M liver; drug screening; transgenic animal; genetic analysis;
W antiarthritic; vulnary; gene therapy.
S Homo sapiens.
X US2003036159-A1.
X
X 20-FEB-2003.
D
X
X 02-JUL-2002; 2002US-00188773.
F
X 18-SEP-1997; 97US-0059263P.
R 18-SEP-1997; 97US-0059266P.
R 17-OCT-1997; 97US-0062250P.
R 21-OCT-1997; 97US-0063486P.
R 24-OCT-1997; 97US-0063120P.
R 28-OCT-1997; 97US-0063121P.
R 28-OCT-1997; 97US-0063540P.
R 28-OCT-1997; 97US-0063541P.
R 28-OCT-1997; 97US-0063544P.
R 28-OCT-1997; 97US-0063564P.
R 29-OCT-1997; 97US-0063734P.
R 31-OCT-1997; 97US-0063870P.
R 31-OCT-1997; 97US-0064103P.
R 13-NOV-1997; 97US-0065311P.
R 21-NOV-1997; 97US-0066120P.
R 24-NOV-1997; 97US-0066466P.
R 24-NOV-1997; 97US-0066772P.
R 11-DEC-1997; 97US-0069335P.
R 12-DEC-1997; 97US-0069425P.
R 17-DEC-1997; 97US-0069870P.
R 18-DEC-1997; 97US-0068017P.
R 10-MAR-1998; 98US-0077450P.
R 11-MAR-1998; 98US-0077632P.
R 11-MAR-1998; 98US-0077649P.
R 20-MAR-1998; 98US-0078886P.
R 20-MAR-1998; 98US-0078939P.
R 27-MAR-1998; 98US-0079664P.
R 27-MAR-1998; 98US-0079786P.
R 31-MAR-1998; 98US-0080107P.
R 01-APR-1998; 98US-0080194P.
R 01-APR-1998; 98US-0080327P.
R 08-APR-1998; 98US-0080333P.
R 08-APR-1998; 98US-0081049P.
R 09-APR-1998; 98US-0081070P.
R 09-APR-1998; 98US-0081195P.
R 15-APR-1998; 98US-0081838P.
R 21-APR-1998; 98US-0082568P.
R 21-APR-1998; 98US-0082569P.
R 22-APR-1998; 98US-0082704P.
R 22-APR-1998; 98US-0082797P.
R 28-APR-1998; 98US-0083322P.
R 29-APR-1998; 98US-0083495P.
R 29-APR-1998; 98US-0083496P.
R 29-APR-1998; 98US-0083499P.
R 29-APR-1998; 98US-0083555P.
R 05-MAY-1998; 98US-0084366P.
R 06-MAY-1998; 98US-0084414P.
R 07-MAY-1998; 98US-0084639P.
R 07-MAY-1998; 98US-0084640P.
R 07-MAY-1998; 98US-0084643P.
R 15-MAY-1998; 98US-0085579P.
R 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 11-JUN-1998; 98US-0088836P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 17-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 18-JUN-1998; 98US-0089653P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.

	PR	17-AUG-1998;	98US-0036881P.	
	PR	17-AUG-1998;	98US-0056897P.	
	PR	18-AUG-1998;	98US-0036949P.	
	PR	18-AUG-1998;	98US-0036959P.	
	PR	18-AUG-1998;	98US-0037022P.	
	PR	26-AUG-1998;	98US-0097952P.	
	PR	26-AUG-1998;	98US-0097952P.	
	PR	26-AUG-1998;	98US-0097955P.	
	PR	26-AUG-1998;	98US-0097971P.	
	PR	26-AUG-1998;	98US-0097974P.	
	PR	26-AUG-1998;	98US-0098014P.	
	PR	01-SEP-1998;	98US-0098716P.	
	PR	01-SEP-1998;	98US-0098723P.	
	PR	02-SEP-1998;	98US-0098803P.	
	PR	02-SEP-1998;	98US-0098821P.	
	PR	02-SEP-1998;	98US-0098843P.	
	PR	09-SEP-1998;	98US-0099602P.	
	PR	10-SEP-1998;	98US-0099741P.	
	PR	10-SEP-1998;	98US-0099754P.	
	PR	10-SEP-1998;	98US-0099763P.	
	PR	10-SEP-1998;	98US-0099812P.	
	PR	15-SEP-1998;	98US-0100388P.	
	PR	16-SEP-1998;	98US-0100662P.	
	PR	16-SEP-1998;	98US-0100664P.	
	PR	16-SEP-1998;	98US-0101751P.	
	PR	16-SEP-1998;	98WO-US01933Q.	
	PR	17-SEP-1998;	98US-0100683P.	
	PR	17-SEP-1998;	98US-0100684P.	
	PR	17-SEP-1998;	98US-0100919P.	
	PR	17-SEP-1998;	98US-0100930P.	
	PR	18-SEP-1998;	98US-0100849P.	
	PR	18-SEP-1998;	98US-0101014P.	
	PR	18-SEP-1998;	98US-0101068P.	
	PR	23-SEP-1998;	98US-0101471P.	
	PR	23-SEP-1998;	98US-0101472P.	
	PR	23-SEP-1998;	98US-0101475P.	
	PR	23-SEP-1998;	98US-0101477P.	
	PR	24-SEP-1998;	98US-0101738P.	
	PR	24-SEP-1998;	98US-0101739P.	
	PR	24-SEP-1998;	98US-0101743P.	
	PR	24-SEP-1998;	98US-0101922P.	
	PR	25-SEP-1998;	98US-0101786P.	
	PR	25-SEP-1998;	98US-0102207P.	
	PR	29-SEP-1998;	98US-0102240P.	
	PR	29-SEP-1998;	98US-0102330P.	
	PR	29-SEP-1998;	98US-0102331P.	
	PR	30-SEP-1998;	98US-0102487P.	
	PR	30-SEP-1998;	98US-0102570P.	
	PR	30-SEP-1998;	98US-0102571P.	
	PR	01-OCT-1998;	98US-0102684P.	
	PR	01-OCT-1998;	98US-0102687P.	

Query Match 99.2%; Score 1472; DB 6; Length 277;
 Best Local Similarity 99.3%; Pred. No. 8.le-140;
 Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0

QY	1	MNGFASLLRNQIFILLVFLLIQISLGLDIDSRTAEVCATHISPGPKGDGGEKDGPCE	60
DB	1	MNGFASLLRNQIFILLVFLLIQISLGLDIDSRTAEVCATHISPGPKGDGGEKDGPCE	60
QY	61	EKGHGKVGMRGPKGIGBELGDMGRNIGKTGPTGGKDGKEGKLGIIPCKKAGTVCDC	120
DB	61	EKGHGKVGMRGPKGIGBELGDMGRNIGKTGPTGGKDGKEGKLGIIPCKKAGTVCDC	120
QY	121	CGRYRKFVGQLDISIARLKTSMKFKVNVIAGIRETEEFKYIVVOEEKNYRESITHCIRRG	180
DB	121	CGRYRKFVGQLDISIARLKTSMKFKVNVIAGIRETEEFKYIVVOEEKNYRESITHCIRRG	180
QY	181	GMLAMPKDEAANTLTADYVAKSGFRRVFPIGVNDLEREGQYMTDNTPLQYNSWNNEGPS	240
DB	181	GMLAMPKDEAANTLTADYVAKSGFRRVFPIGVNDLEREGQYMTDNTPLQYNSWNNEGPS	240
QY	241	DPYGHEDCVMELSSGRWMDTECHLTMYEVCFFIKKKK	277


```
R 07-MAY-1998; 98US-0084633P.
R 07-MAY-1998; 98US-0084640P.
R 07-MAY-1998; 98US-0084643P.
R 15-MAY-1998; 98US-0085579P.
R 15-MAY-1998; 98US-0085580P.
R 15-MAY-1998; 98US-0085582P.
R 15-MAY-1998; 98US-0085700P.
R 18-MAY-1998; 98US-0085023P.
R 22-MAY-1998; 98US-0086392P.
R 22-MAY-1998; 98US-0086486P.
R 28-MAY-1998; 98US-0087098P.
R 28-MAY-1998; 98US-0087208P.
R 02-JUN-1998; 98US-0087609P.
R 02-JUN-1998; 98US-0087759P.
R 03-JUN-1998; 98US-0087822P.
R 04-JUN-1998; 98US-0088025P.
R 04-JUN-1998; 98US-0088028P.
R 04-JUN-1998; 98US-0088029P.
R 04-JUN-1998; 98US-0088033P.
R 04-JUN-1998; 98US-0088326P.
R 05-JUN-1998; 98US-0088167P.
R 05-JUN-1998; 98US-0088202P.
R 05-JUN-1998; 98US-0088212P.
R 05-JUN-1998; 98US-0088217P.
R 09-JUN-1998; 98US-0088655P.
R 10-JUN-1998; 98US-0088722P.
R 10-JUN-1998; 98US-0088738P.
R 10-JUN-1998; 98US-0088740P.
R 10-JUN-1998; 98US-0088811P.
R 10-JUN-1998; 98US-0088824P.
R 10-JUN-1998; 98US-0088825P.
R 10-JUN-1998; 98US-0088826P.
R 11-JUN-1998; 98US-0088861P.
R 11-JUN-1998; 98US-0088863P.
R 11-JUN-1998; 98US-0088876P.
R 12-JUN-1998; 98US-0089090P.
R 12-JUN-1998; 98US-0089105P.
R 16-JUN-1998; 98US-0089512P.
R 16-JUN-1998; 98US-0089514P.
R 17-JUN-1998; 98US-0089538P.
R 17-JUN-1998; 98US-0089598P.
R 17-JUN-1998; 98US-0089653P.
R 18-JUN-1998; 98US-0089808P.
R 19-JUN-1998; 98US-0089952P.
R 22-JUN-1998; 98US-0090246P.
R 22-JUN-1998; 98US-0090252P.
R 22-JUN-1998; 98US-0090253P.
R 24-JUN-1998; 98US-0090429P.
R 24-JUN-1998; 98US-0090435P.
R 24-JUN-1998; 98US-0090444P.
R 24-JUN-1998; 98US-0090461P.
R 24-JUN-1998; 98US-0090535P.
R 24-JUN-1998; 98US-0090540P.
R 25-JUN-1998; 98US-0090676P.
R 25-JUN-1998; 98US-0090678P.
R 25-JUN-1998; 98US-0090688P.
R 25-JUN-1998; 98US-0090690P.
R 25-JUN-1998; 98US-0090694P.
R 25-JUN-1998; 98US-0090695P.
R 25-JUN-1998; 98US-0090696P.
R 26-JUN-1998; 98US-00105413.
R 26-JUN-1998; 98US-0090862P.
R 26-JUN-1998; 98US-0090863P.
R 26-JUN-1998; 98US-0091010P.
R 01-JUL-1998; 98US-0091355P.
R 01-JUL-1998; 98US-0091544P.
R 02-JUL-1998; 98US-0091478P.
R 02-JUL-1998; 98US-0091486P.
R 02-JUL-1998; 98US-0091628P.
R 02-JUL-1998; 98US-0091628P.
R 02-JUL-1998; 98US-0091632P.
R 04-JUL-1998; 98US-0094006P.
R 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095988P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100642P.
PR 16-SEP-1998; 98US-0100684P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101751P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101049P.
PR 18-SEP-1998; 98US-0101049P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102077P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match          99.2%; Score 1472; DB 6; Length 277;
Best Local Similarity 99.3%; Pred. No. 8.1e-140;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNGFASLLRNQFILLVLLFIQIQLGIDISRPTAEVCATHIISPGPKDDGKGDPPG 60
DB 1 MNGFASLLRNQFILLVLLFIQIQLGIDISRPTAEVCATHIISPGPKDDGKGDPPG 60
QY 61 EGKKGKVGMPKGIKGELGDMGDRGNIGKTGPIGKKGDKGKGLLGIPEGKKGAGTVCD 120
DB 61 EGKKGKVGMPKGIKGELGDMGDRGNIGKTGPIGKKGDKGKGLLGIPEGKKGAGTVCD 120
```

121 CGRYKFKVQGLDISIARLKTSMKFVKVNIAGIRETEBEKPYIIVQEEKNYRESLTHCRING 180
121 CGRYKFKVQGLDISIARLKTSMKFVKVNIAGIRETEBEKPYIIVQEEKNYRESLTHCRING 180
181 GMLAMPKDEAANTLIADYVAKSGFFRVFIGVNDLEREGQYMTDNTPLQYNNWNEGEPS 240
181 GMLAMPKDEAANTLIADYVAKSGFFRVFIGVNDLEREGQYMTDNTPLQYNNWNEGEPS 240
241 DPYGHEDCEVEMSSGRWNTRECHLTMYFVCEFIKXXX 277
241 DPYGHEDCEVEMSSGRWNTRECHLTMYFVCEFIKXXX 277

RESULT 11

ABU82755
ID ABU82755 standard; protein; 277 AA.

XX AC

XX DT 27-JUN-2003 (first entry)

XX DE Human PRO polypeptide #50.

XX KW Human; PRO polypeptide; secreted and transmembrane protein; tumour;
chromosome mapping; gene mapping; cytostatic.

XX OS Homo sapiens.

XX PN US2003032113-A1.

XX PD 13-FEB-2003.

XX PF 20-JUN-2002; 2002US-00176911.

XX PR 18-SEP-1997; 97US-0059263P.

PR 18-SEP-1997; 97US-0059266P.

PR 21-OCT-1997; 97US-0062250P.

PR 24-OCT-1997; 97US-0063486P.

PR 24-OCT-1997; 97US-0063120P.

PR 28-OCT-1997; 97US-0063121P.

PR 28-OCT-1997; 97US-0063540P.

PR 28-OCT-1997; 97US-0063541P.

PR 28-OCT-1997; 97US-0063544P.

PR 29-OCT-1997; 97US-0063564P.

PR 31-OCT-1997; 97US-0063734P.

PR 31-OCT-1997; 97US-0063870P.

PR 13-NOV-1997; 97US-0065311P.

PR 24-NOV-1997; 97US-0065612P.

PR 11-DEC-1997; 97US-0066468P.

PR 11-DEC-1997; 97US-0066772P.

PR 12-DEC-1997; 97US-0069335P.

PR 17-DEC-1997; 97US-0069425P.

PR 18-DEC-1997; 97US-0069870P.

PR 10-MAR-1998; 97US-0068017P.

PR 11-MAR-1998; 97US-0077450P.

PR 11-MAR-1998; 97US-0077632P.

PR 20-MAR-1998; 97US-0077649P.

PR 20-MAR-1998; 97US-0078886P.

PR 22-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 28-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 02-JUN-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087509P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 18-JUN-1998; 98US-0089533P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.

R 01-JUL-1998; 98US-0091544P.
R 02-JUL-1998; 98US-0091478P.
R 02-JUL-1998; 98US-0091486P.
R 02-JUL-1998; 98US-0091626P.
R 02-JUL-1998; 98US-0091628P.
R 02-JUL-1998; 98US-0091632P.
R 02-JUL-1998; 98US-0094006P.
R 04-AUG-1998; 98US-0095282P.
R 10-AUG-1998; 98US-0095998P.
R 10-AUG-1998; 98US-0096012P.
R 17-AUG-1998; 98US-0096757P.
R 17-AUG-1998; 98US-0096766P.
R 17-AUG-1998; 98US-0096867P.
R 17-AUG-1998; 98US-0096891P.
R 17-AUG-1998; 98US-0096897P.
R 18-AUG-1998; 98US-0096949P.
R 18-AUG-1998; 98US-0096959P.
R 18-AUG-1998; 98US-0097022P.
R 26-AUG-1998; 98US-0097552P.
R 26-AUG-1998; 98US-0097954P.
R 26-AUG-1998; 98US-0097955P.
R 26-AUG-1998; 98US-0097971P.
R 26-AUG-1998; 98US-0097974P.
R 26-AUG-1998; 98US-0098014P.
R 01-SEP-1998; 98US-0098716P.
R 01-SEP-1998; 98US-0098723P.
R 02-SEP-1998; 98US-0098803P.
R 02-SEP-1998; 98US-0098821P.
R 02-SEP-1998; 98US-0098843P.
R 09-SEP-1998; 98US-0099602P.
R 10-SEP-1998; 98US-0099741P.
R 10-SEP-1998; 98US-0099754P.
R 10-SEP-1998; 98US-0099763P.
R 10-SEP-1998; 98US-0099812P.
R 15-SEP-1998; 98US-0100388P.
R 16-SEP-1998; 98US-0100662P.
R 16-SEP-1998; 98US-0100664P.
R 16-SEP-1998; 98US-0101751P.
R 16-SEP-1998; 98WO-US019330.
R 17-SEP-1998; 98US-0100683P.
R 17-SEP-1998; 98US-0100684P.
R 17-SEP-1998; 98US-0100919P.
R 17-SEP-1998; 98US-0100930P.
R 18-SEP-1998; 98US-0100849P.
R 18-SEP-1998; 98US-0101014P.
R 18-SEP-1998; 98US-0101069P.
R 23-SEP-1998; 98US-0101471P.
R 23-SEP-1998; 98US-0101472P.
R 23-SEP-1998; 98US-0101475P.
R 23-SEP-1998; 98US-0101477P.
R 24-SEP-1998; 98US-0101738P.
R 24-SEP-1998; 98US-0101739P.
R 24-SEP-1998; 98US-0101743P.
R 24-SEP-1998; 98US-0101922P.
R 25-SEP-1998; 98US-0101786P.
R 29-SEP-1998; 98US-0102207P.
R 29-SEP-1998; 98US-0102240P.
R 29-SEP-1998; 98US-0102330P.
R 29-SEP-1998; 98US-0102332P.
R 30-SEP-1998; 98US-0102487P.
R 30-SEP-1998; 98US-0102570P.
R 30-SEP-1998; 98US-0102571P.
R 01-OCT-1998; 98US-0102684P.
R 01-OCT-1998; 98US-0102687P.
R 02-OCT-1998; 98US-0102965P.
R 06-OCT-1998; 98US-0103258P.
R 06-OCT-1998; 98US-0103449P.
R 07-OCT-1998; 98US-0016897P.
R 07-OCT-1998; 98US-0103395P.

Query Match 99.2%; Score 1472; DB 6; Length 277;
Best Local Similarity 99.3%; Pred.No. 8,1e-140;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNGFASLLRNQFILLVFLFIQISLGLDIDSRTAECATHTISPGPKGDDGKGPGE 60
DB 1 MNGFASLLRNQFILLVFLFIQISLGLDIDSRTAECATHTISPGPKGDDGKGPGE 60
QY 61 EGKHGKVGEMGPKGIGELGDMGRGNIGKTGPIGKKGDKGKGLLIGIPEGKKGAGTVCD 120
DB 61 EGKHGKVGEMGPKGIGELGDMGRGNIGKTGPIGKKGDKGKGLLIGIPEGKKGAGTVCD 120
QY 121 CQYRKVFVGQLDISIARKTSMKFKVKNVIAGIRETEKFFYIVQEEKYRESLTHCRIRG 180
DB 121 CQYRKVFVGQLDISIARKTSMKFKVKNVIAGIRETEKFFYIVQEEKYRESLTHCRIRG 180
QY 181 GMLAMPKDEAAANTLIADYVAKSGFRFVIGVNDLREGQYMFDTNTPLOYSNNWGEPS 240
DB 181 GMLAMPKDEAAANTLIADYVAKSGFRFVIGVNDLREGQYMFDTNTPLOYSNNWGEPS 240
QY 241 DPYGHEDCVELSSGRWNTDTECHLTMYFVCEFIKKKK 277
DB 241 DPYGHEDCVELSSGRWNTDTECHLTMYFVCEFIKKKK 277
RESULT 12
ABU89876
ID ABU89876 standard; protein; 277 AA.
XX
AC ABU89876;
XX
DT 11-AUG-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO702.
XX
KW Human; gene therapy; tissue typing; tumour; chondrocyte proliferation;
KW chondrocyte differentiation; tumour necrosis factor-alpha release;
XX affinity purification.
OS Homo sapiens.
PN US2003036147-A1.
PD 20-FEB-2003.
XX
PF 02-JUL-2002; 2002US-00187741.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 31-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.

PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088328P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 11-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 17-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090425P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090675P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090679P.
PR 01-OCT-1998; 98US-0102684P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095988P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 26-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097852P.
PR 26-AUG-1998; 98US-0097854P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 01-SEP-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100652P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101751P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.

R 01-OCT-1998; 98US-0102687P.
R 02-OCT-1998; 98US-0102965P.
R 06-OCT-1998; 98US-0103258P.
R 06-OCT-1998; 98US-0103449P.
R 07-OCT-1998; 98US-00168978.
Query Match 99.2%; Score 1472; DB 6; length 277;
Best Local Similarity 99.3%; Pred. No. 8.le-140;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Y 1 MNGFASILLRRNQFILLVFLLOIQLSLGLDIDSRPTAEVCAHTTISPGKGDGEGKGPGE 60
b 1 MNGFASILLRRNQFILLVFLLOIQLSLGLDIDSRPTAEVCAHTTISPGKGDGEGKGPGE 60
Y 61 EGKHGKVGMPKIGKEIGLGMGDRGNIGKTGPIKKGKDGKGLLGPBGKAGTVCVD 120
b 61 EGKHGKVGMPKIGKEIGLGMGDRGNIGKTGPIKKGKDGKGLLGPBGKAGTVCVD 120
Y 121 CGRYRKFVQGLDISIARLKTSMKFKVQNVIAIGIRETEEFYIVQEKYRSLTHCRIRG 180
b 121 CGRYRKFVQGLDISIARLKTSMKFKVQNVIAIGIRETEEFYIVQEKYRSLTHCRIRG 180
Y 181 GMLAMPKDEAANTLIADYVYAKSGFPRVFIGVNDLREGEQYMTDNTPLQNYNNWNEGEPS 240
b 181 GMLAMPKDEAANTLIADYVYAKSGFPRVFIGVNDLREGEQYMTDNTPLQNYNNWNEGEPS 240
Y 241 DPYGHEDCVEMLSGRWNTECHLTMYFVCEFIKXXX 277
b 241 DPYGHEDCVEMLSGRWNTECHLTMYFVCEFIKXXX 277
RESULT 13
BR68125
D ABR68125 standard; protein; 277 AA.
X X ABR68125;
X X
X X 11-AUG-2003 (first entry)
X X Human secreted polypeptide PRO702, SEQ ID NO:100.
X X
X X Human; PRO; secreted protein; transmembrane protein; TNF-alpha;
X X extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
X X chondrocyte; proliferation; differentiation; cartilage disorder;
X X bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
X X adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
X X liver; drug screening; transgenic animal; genetic analysis;
X X antiarthritic; vulnervary; gene therapy.
X X
X X Homo sapiens.
X X
X X US2003027264-A1.
X X
X X 06-FEB-2003.
X X
X X 18-JUN-2002; 2002US-00174579.
X X
X X 18-SEP-1997; 97US-0059263P.
X X 18-SEP-1997; 97US-0059266P.
X X 17-OCT-1997; 97US-0062250P.
X X 21-OCT-1997; 97US-0063486P.
X X 24-OCT-1997; 97US-0063120P.
X X 24-OCT-1997; 97US-0063121P.
X X 28-OCT-1997; 97US-0063540P.
X X 28-OCT-1997; 97US-0063541P.
X X 28-OCT-1997; 97US-0063544P.
X X 28-OCT-1997; 97US-0063564P.
X X 29-OCT-1997; 97US-0063734P.
X X 31-OCT-1997; 97US-0063870P.
X X 31-OCT-1997; 97US-0064103P.
X X 13-NOV-1997; 97US-0065311P.
X X 21-NOV-1997; 97US-0066120P.
X X 24-NOV-1997; 97US-0066466P.

PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 15-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 22-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088213P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088555P.
PR 03-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 15-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.

PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090423P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090698P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 24-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095298P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0098602P.
PR 10-SEP-1998; 98US-0098741P.
PR 10-SEP-1998; 98US-0098754P.
PR 10-SEP-1998; 98US-0098763P.
PR 15-SEP-1998; 98US-0098812P.
PR 16-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 18-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.

PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 99.2%; Score 1472; DB 6; Length 277;
Best Local Similarity 99.3%; Pred No. 8.1e-140;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNGFASLLRRNQFILLVFLQLQISLGLDIDSRPTAEVCATHISPGPKGDDGKDPGE 60
|||||
DB 1 MNGFASLLRRNQFILLVFLQLQISLGLDIDSRPTAEVCATHISPGPKGDDGKDPGE 60
|||||
QY 61 EGKHGKVGMRGPKGIGELGDMGDRGNIGKTGPIGKKGKGLGIGPKGKACTVCD 120
|||||
DB 61 EGKHGKVGMRGPKGIGELGDMGDRGNIGKTGPIGKKGKGLGIGPKGKACTVCD 120
|||||
QY 121 CGRYKRVGQLDISIARLKTSMKPVXNVIAGIRETEBEKFYIVQEEKNYRESLTHCRIRG 180
|||||
DB 121 CGRYKRVGQLDISIARLKTSMKPVXNVIAGIRETEBEKFYIVQEEKNYRESLTHCRIRG 180
|||||
QY 181 GMLAMPKDEAANTLIADYVAKSGFFRVFGVNDLREGEYMETDNTPLQNYNNWNEGPS 240
|||||
DB 181 GMLAMPKDEAANTLIADYVAKSGFFRVFGVNDLREGEYMETDNTPLQNYNNWNEGPS 240
|||||
QY 241 DPYGHEDCVEMLSGRRWNTDECHLTWYFVCEFIKXXX 277
|||||
DB 241 DPYGHEDCVEMLSGRRWNTDECHLTWYFVCEFIKXXX 277

RESULT 14
ABU96178
ID ABU96178 standard; protein; 277 AA.
XX AC ABU96178;
XX DT 25-JUL-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO702.
XX KW Human; secreted and transmembrane protein; PRO; transgenic animal;
KW knockout; chromosome identification; tissue typing; tumour;
KW chondrocyte proliferation; chondrocyte differentiation;
KW tumor necrosis factor-alpha release stimulator.
XX OS Homo sapiens.
XX PN US2003036144-A1.
XX PD 20-FEB-2003.
XX PF 01-JUL-2002; 2002US-00187601.
XX PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.

PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082589P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083552P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 02-JUN-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 15-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.

PR	18-SEP-1998;	98US-0101014P.	PR	17-OCT-1997;	97US-0062250P.
PR	18-SEP-1998;	98US-0101068P.	PR	21-OCT-1997;	97US-0063486P.
PR	23-SEP-1998;	98US-0101471P.	PR	24-OCT-1997;	97US-0063120P.
PR	23-SEP-1998;	98US-0101472P.	PR	24-OCT-1997;	97US-0063121P.
PR	23-SEP-1998;	98US-0101475P.	PR	28-OCT-1997;	97US-0063540P.
PR	23-SEP-1998;	98US-0101477P.	PR	28-OCT-1997;	97US-0063541P.
PR	24-SEP-1998;	98US-0101738P.	PR	28-OCT-1997;	97US-0063544P.
PR	24-SEP-1998;	98US-0101739P.	PR	29-OCT-1997;	97US-0063564P.
PR	24-SEP-1998;	98US-0101743P.	PR	29-OCT-1997;	97US-0063734P.
PR	24-SEP-1998;	98US-0101922P.	PR	31-OCT-1997;	97US-0063870P.
PR	25-SEP-1998;	98US-0101786P.	PR	31-OCT-1997;	97US-0064103P.
PR	29-SEP-1998;	98US-0102207P.	PR	13-NOV-1997;	97US-0065311P.
PR	29-SEP-1998;	98US-0102240P.	PR	21-NOV-1997;	97US-0066120P.
PR	29-SEP-1998;	98US-0102330P.	PR	24-NOV-1997;	97US-0066466P.
PR	29-SEP-1998;	98US-0102331P.	PR	24-NOV-1997;	97US-0066772P.
PR	30-SEP-1998;	98US-0102487P.	PR	11-DEC-1997;	97US-0069335P.
PR	30-SEP-1998;	98US-0102570P.	PR	12-DEC-1997;	97US-0069425P.
PR	30-SEP-1998;	98US-0102571P.	PR	17-DEC-1997;	97US-0069870P.
PR	01-OCT-1998;	98US-0102571P.	PR	18-DEC-1997;	97US-0068017P.
PR	01-OCT-1998;	98US-0102684P.	PR	10-MAR-1998;	98US-0077450P.
PR	01-OCT-1998;	98US-0102687P.	PR	11-MAR-1998;	98US-0077632P.
PR	02-OCT-1998;	98US-0102965P.	PR	11-MAR-1998;	98US-0077649P.
PR	06-OCT-1998;	98US-0103258P.	PR	20-MAR-1998;	98US-0078886P.
PR	06-OCT-1998;	98US-0103449P.	PR	20-MAR-1998;	98US-0078939P.
Query Match 99.2%; Score 1472; DB 6; Length 277;					98US-0079664P.
Best Local Similarity 99.3%; Pred. No. 8,1e-140;					98US-0079786P.
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;					98US-0080107P.
QY	1	MNGFASLLRNQFILLVLLFIQIQLGLDIDSRPTAEVCATHISCPKGGDDGKGDGPE 60	PR	31-MAR-1998;	98US-0080194P.
DB	1	MNGFASLLRNQFILLVLLFIQIQLGLDIDSRPTAEVCATHISCPKGGDDGKGDGPE 60	PR	01-APR-1998;	98US-0080327P.
QY	61	EKGKGVGMGPKGKGGLDIDSRPTAEVCATHISCPKGGDDGKGDGPE 120	PR	01-APR-1998;	98US-0080333P.
DB	61	EKGKGVGMGPKGKGGLDIDSRPTAEVCATHISCPKGGDDGKGDGPE 120	PR	08-APR-1998;	98US-0081049P.
QY	121	CGRYKFKVQGLDISARLKTSMKFKYVIAIGIRETEEFYIYVQEEKYRESLTHCRIRG 180	PR	09-APR-1998;	98US-0081070P.
DB	121	CGRYKFKVQGLDISARLKTSMKFKYVIAIGIRETEEFYIYVQEEKYRESLTHCRIRG 180	PR	09-APR-1998;	98US-0081195P.
QY	181	GMLAMPKDEAANTLADYVAKSGPRFVIGYNDLRRGQYMTDNTPLQYSNWNEGEP 240	PR	15-APR-1998;	98US-0081838P.
DB	181	GMLAMPKDEAANTLADYVAKSGPRFVIGYNDLRRGQYMTDNTPLQYSNWNEGEP 240	PR	21-APR-1998;	98US-0082568P.
QY	241	DPYGHEDCVMLSSGRWNTDCHLTMVFCFIFKXK 277	PR	21-APR-1998;	98US-0082569P.
DB	241	DPYGHEDCVMLSSGRWNTDCHLTMVFCFIFKXK 277	PR	22-APR-1998;	98US-0082704P.
RESULT 15					98US-0082757P.
ID	ABU92609	standard; protein; 277 AA.	PR	22-APR-1998;	98US-0083322P.
XX	XX		PR	28-APR-1998;	98US-0083495P.
AC	ABU92609;		PR	29-APR-1998;	98US-0083496P.
XX	XX		PR	29-APR-1998;	98US-0083499P.
DT	18-JUL-2003 (first entry)		PR	29-APR-1998;	98US-0083559P.
XX	XX		PR	05-MAY-1998;	98US-0084366P.
DE	Human secreted/transmembrane protein (PRO) #50.		PR	06-MAY-1998;	98US-0084414P.
XX	XX		PR	07-MAY-1998;	98US-0084639P.
KW	Human; secreted protein; transmembrane protein; PRO; tumour;		PR	07-MAY-1998;	98US-0084640P.
KW	proliferation; differentiation; chondrocyte cell; TNF-alpha;		PR	15-MAY-1998;	98US-0085579P.
KW	tumour necrosis factor-alpha; gene therapy.		PR	15-MAY-1998;	98US-0085580P.
OS	Homo sapiens.		PR	15-MAY-1998;	98US-0085582P.
XX	XX		PR	15-MAY-1998;	98US-0085700P.
FN	US2003036149-A1.		PR	15-MAY-1998;	98US-0086023P.
XX	XX		PR	18-MAY-1998;	98US-0086392P.
PD	20-FEB-2003.		PR	22-MAY-1998;	98US-0086486P.
XX	XX		PR	22-MAY-1998;	98US-0087098P.
PF	02-JUL-2002; 2002US-00187746.		PR	28-MAY-1998;	98US-0087208P.
XX	XX		PR	02-JUN-1998;	98US-0087609P.
XX	XX		PR	02-JUN-1998;	98US-0087759P.
XX	XX		PR	03-JUN-1998;	98US-0087827P.
XX	XX		PR	04-JUN-1998;	98US-0088025P.
XX	XX		PR	04-JUN-1998;	98US-0088028P.
XX	XX		PR	04-JUN-1998;	98US-0088029P.
XX	XX		PR	04-JUN-1998;	98US-0088033P.
XX	XX		PR	04-JUN-1998;	98US-0088326P.
XX	XX		PR	05-JUN-1998;	98US-0088167P.
XX	XX		PR	05-JUN-1998;	98US-0088202P.
XX	XX		PR	05-JUN-1998;	98US-0088212P.
XX	XX		PR	05-JUN-1998;	98US-0088217P.
XX	XX		PR	09-JUN-1998;	98US-0088655P.
XX	XX		PR	10-JUN-1998;	98US-0088722P.
XX	XX		PR	10-JUN-1998;	98US-0088738P.
PR	18-SEP-1997;	97US-0059263P.	PR	10-JUN-1998;	98US-0088740P.
PR	18-SEP-1997;	97US-0059266P.			

R 10-JUN-1998; 98US-0088811P.
R 10-JUN-1998; 98US-0088824P.
R 10-JUN-1998; 98US-0088825P.
R 10-JUN-1998; 98US-0088826P.
R 11-JUN-1998; 98US-0088861P.
R 11-JUN-1998; 98US-0088863P.
R 11-JUN-1998; 98US-0088866P.
R 11-JUN-1998; 98US-0088876P.
R 12-JUN-1998; 98US-0089090P.
R 12-JUN-1998; 98US-0089105P.
R 12-JUN-1998; 98US-0089512P.
R 12-JUN-1998; 98US-0089514P.
R 12-JUN-1998; 98US-0089518P.
R 12-JUN-1998; 98US-0089538P.
R 12-JUN-1998; 98US-0089598P.
R 12-JUN-1998; 98US-0089653P.
R 12-JUN-1998; 98US-0089808P.
R 12-JUN-1998; 98US-0089852P.
R 12-JUN-1998; 98US-0090246P.
R 12-JUN-1998; 98US-0090252P.
R 12-JUN-1998; 98US-0090254P.
R 12-JUN-1998; 98US-0090429P.
R 12-JUN-1998; 98US-0090435P.
R 12-JUN-1998; 98US-0090444P.
R 12-JUN-1998; 98US-0090461P.
R 12-JUN-1998; 98US-0090535P.
R 12-JUN-1998; 98US-0090540P.
R 12-JUN-1998; 98US-0090567P.
R 12-JUN-1998; 98US-0090678P.
R 12-JUN-1998; 98US-0090688P.
R 12-JUN-1998; 98US-0090690P.
R 12-JUN-1998; 98US-0090594P.
R 12-JUN-1998; 98US-0090595P.
R 12-JUN-1998; 98US-0090596P.
R 12-JUN-1998; 98US-00105413.
R 12-JUN-1998; 98US-0090862P.
R 12-JUN-1998; 98US-0090863P.
R 12-JUN-1998; 98US-0091010P.
R 12-JUN-1998; 98US-0091359P.
R 12-JUN-1998; 98US-0091544P.
R 12-JUN-1998; 98US-0091478P.
R 12-JUN-1998; 98US-0091486P.
R 12-JUN-1998; 98US-0091626P.
R 12-JUN-1998; 98US-0091628P.
R 12-JUN-1998; 98US-0091632P.
R 12-JUN-1998; 98US-0094006P.
R 12-JUN-1998; 98US-0095282P.
R 12-JUN-1998; 98US-0095998P.
R 12-JUN-1998; 98US-0096012P.
R 12-JUN-1998; 98US-0096757P.
R 12-JUN-1998; 98US-0096766P.
R 12-JUN-1998; 98US-0096867P.
R 12-JUN-1998; 98US-0096891P.
R 12-JUN-1998; 98US-0096897P.
R 12-JUN-1998; 98US-0096949P.
R 12-JUN-1998; 98US-0096959P.
R 12-JUN-1998; 98US-0097022P.
R 12-JUN-1998; 98US-0097952P.
R 12-JUN-1998; 98US-0097954P.
R 12-JUN-1998; 98US-0097955P.
R 12-JUN-1998; 98US-0097971P.
R 12-JUN-1998; 98US-0097974P.
R 12-JUN-1998; 98US-0098014P.
R 12-JUN-1998; 98US-0098716P.
R 12-JUN-1998; 98US-0098723P.
R 12-JUN-1998; 98US-0098803P.
R 12-JUN-1998; 98US-0098821P.
R 12-JUN-1998; 98US-0098843P.
R 12-JUN-1998; 98US-0099602P.
R 12-JUN-1998; 98US-0099741P.
R 12-JUN-1998; 98US-0099754P.
R 12-JUN-1998; 98US-0099763P.
R 12-JUN-1998; 98US-0099812P.
R 12-JUN-1998; 98US-0100388P.
R 12-JUN-1998; 98US-0100662P.

PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 17-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 18-SEP-1998; 98US-0101471P.
PR 18-SEP-1998; 98US-0101472P.
PR 18-SEP-1998; 98US-0101475P.
PR 18-SEP-1998; 98US-0101477P.
PR 18-SEP-1998; 98US-0101738P.
PR 18-SEP-1998; 98US-0101739P.
PR 18-SEP-1998; 98US-0101743P.
PR 18-SEP-1998; 98US-0101922P.
PR 18-SEP-1998; 98US-0101786P.
PR 18-SEP-1998; 98US-0102207P.
PR 18-SEP-1998; 98US-0102207P.
PR 18-SEP-1998; 98US-0102330P.
PR 18-SEP-1998; 98US-0102331P.
PR 18-SEP-1998; 98US-0102487P.
PR 18-SEP-1998; 98US-0102570P.
PR 18-SEP-1998; 98US-0102571P.
PR 18-SEP-1998; 98US-0102684P.
PR 18-SEP-1998; 98US-0102687P.
PR 18-SEP-1998; 98US-0102965P.
PR 18-SEP-1998; 98US-0103258P.
PR 18-SEP-1998; 98US-0103449P.
PR 18-SEP-1998; 98US-00168978.

Query Match 99.2%; Score 1472; DB 6; Length 277;
Best Local Similarity 99.3%; Pred. No. 8.1e-140;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNGFASLLRRNQFILLVLFILQISGLDIDSRPTAEVCATHTISPGKGGDDGKGPGE 60
Db 1 MNGFASLLRRNQFILLVLFILQISGLDIDSRPTAEVCATHTISPGKGGDDGKGPGE 60

QY 61 ECKHGKVGKMGPKGKIGELGDMGDRGNIGKTGPICKGDKGKGLLGPGEKAGTVCD 120
Db 61 ECKHGKVGKMGPKGKIGELGDMGDRGNIGKTGPICKGDKGKGLLGPGEKAGTVCD 120

QY 121 CGRYKFGVQLDISIARLKTSMKFKVKNVIAGIRTEEFKYYIVQEEKNYRESLTHCIRG 180
Db 121 CGRYKFGVQLDISIARLKTSMKFKVKNVIAGIRTEEFKYYIVQEEKNYRESLTHCIRG 180

QY 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLEREGQYMTDNTPLQYNSWNEGEPS 240
Db 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLEREGQYMTDNTPLQYNSWNEGEPS 240

QY 241 DPYGHEDCVEMLSGRWNTDTECHLTMTVFCFIFKXK 277
Db 241 DPYGHEDCVEMLSGRWNTDTECHLTMTVFCFIFKXK 277

Search completed: February 24, 2004, 02:22:39
Job time : 72 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

4 protein - protein search, using sw model

in on: February 24, 2004, 02:07:27 ; Search time 18 seconds
(without alignments)
801.302 Million cell updates/sec

title: US-09-600-932-2

effect score: 1484

sequence: 1 MNGFASLLRNQFILLVFL.....NDTECHLTMYVCFEIKKK 277

coring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

searched: 141681 seqs, 52070155 residues

total number of hits satisfying chosen parameters: 141681

minimum DB seq length: 0

maximum DB seq length: 2000000000

post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

atabase : SwissProt_42.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Match	Length	ID	Description
1	350.5	23.6	321	1	CL43_BOVIN
2	349.5	23.6	369	1	PSPD_BOVIN
3	340	22.9	374	1	PSPD_MOUSE
4	337	22.7	375	1	PSPD_HUMAN
5	333	22.4	374	1	PSPD_RAT
6	330.5	22.3	371	1	CL46_BOVIN
7	328.5	22.1	371	1	CONG_BOVIN
8	305.5	20.6	247	1	PSPA_RABIT
9	290	19.5	238	1	MABA_RAT
10	290	19.5	244	1	MABC_MOUSE
11	289.5	19.5	248	1	MABC_HUMAN
12	285.5	19.2	249	1	PSPA_PIG
13	284.5	19.2	249	1	MABC_BOVIN
14	284	19.1	248	1	PSPA_HUMAN
15	280	18.9	248	1	PSPA_CANFA
16	279	18.8	244	1	MABC_RAT
17	277	18.7	248	1	PSPA_RAT
18	270.5	18.2	239	1	MABA_MOUSE
19	270	18.2	247	1	PSPA_CAVPO
20	269.5	18.2	248	1	PSPA_MOUSE
21	207	13.9	689	1	CA92_HUMAN
22	203	13.7	688	1	CA93_MOUSE
23	196.5	13.2	289	1	CQT7_HUMAN
24	196	13.2	1775	1	CA14_DROME
25	192.5	13.0	2944	1	CA17_HUMAN
26	191.5	12.9	1366	1	CA21_HUMAN
27	191	12.9	1022	1	CA96_CHICK
28	187.5	12.6	508	1	OTOL_ONCKE
29	187.5	12.6	518	1	MTCO_MOUSE
30	187	12.6	1029	1	CA36_MOUSE
31	186	12.5	1025	1	CA16_MOUSE
32	186	12.5	1736	1	CA28_MOUSE
33	185.5	12.5	674	1	CA1A_CHICK

34	184.5	12.4	1362	1	CA21_CHICK	P02467 gallus gall
35	183.5	12.4	1019	1	CA26_HUMAN	P12110 homo sapien
36	183.5	12.4	1364	1	CA21_BOVIN	P02465 bos taurus
37	183	12.3	1838	1	CA15_HUMAN	P20908 homo sapien
38	182	12.3	1262	1	CA13_CHICK	P12105 gallus gall
39	181.5	12.2	1019	1	CA16_CHICK	P20785 gallus gall
40	181.5	12.2	1603	1	CA1F_HUMAN	Q07092 homo sapien
41	180.5	12.2	1366	1	CA21_CANFA	O46392 canis famil
42	180.5	12.2	1496	1	CA25_HUMAN	P05997 homo sapien
43	179.5	12.1	1028	1	CA16_HUMAN	P12109 homo sapien
44	179	12.1	520	1	MRCO_HUMAN	Q9uew3 homo sapien
45	178.5	12.0	1372	1	CA21_MOUSE	Q01149 mus musculu

ALIGNMENTS

RESULT 1
CL43_BOVIN STANDARD; PRT; 321 AA.
ID P42916; Q8WMP4;
AC 01-NOV-1995 (Rel. 32, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DE 10-OCT-2003 (Rel. 42, Last annotation update)
DE Collectin-43 precursor (CL-43) (43 kDa collectin).
GN CL43.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]_TaxID=9913;
RP SEQUENCE FROM N.A.
RC TISSUE=Liver;
RX MEDLINE=22414671; PubMed=12527419;
RA Hansen S., Holm D., Moeller V., Vitved L., Bendixen C., Skjoed K.,
RA Holmskov U.;
RT "Genomic and molecular characterization of CL-43 and its proximal
RT promoter".
RL Biochim. Biophys. Acta 1625:1-10(2003).
RN [2]
RP SEQUENCE OF 21-321 FROM N.A., AND PARTIAL SEQUENCE.
RC TISSUE=Liver;
RX MEDLINE=94216283; PubMed=8163480;
RA Lim B.-L., Willis A.C., Reid K.B.M., Lu J., Laursen S.B.,
RA Jensenius J.C., Holmskov U.;
RT "Primary structure of bovine collectin-43 (CL-43). Comparison with
RT conglutinin and lung surfactant protein-D.";
RL J. Biol. Chem. 269:11820-11824(1994).
CC -!- FUNCTION: Lectin that binds to various sugars: mannose >
CC fucose > galactose > galactose > lactose >
CC galNAc. Could play a role in immune defense.
CC -!- SUBUNIT: Oligomeric complex of 4 set of homotrimers.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- TISSUE SPECIFICITY: Liver specific.
CC -!- PTM: Hydroxylated (potential).
CC -!- SIMILARITY: Contains 1 collagenous domain.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (see http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; AY071821; AAL61855.1; --
CC EMBL; AY071822; AAL61856.1; --
CC EMBL; X75912; CAA53511.1; ALT_SEQ.
CC HSSP; P35247; 1B08.
CC InterPro; IPR008160; Collagen.
CC InterPro; IPR001304; Lectin_C.

C P50404;
T 01-OCT-1996 (Rel. 34, Created)
T 01-OCT-1996 (Rel. 34, Last sequence update)
T 10-OCT-2003 (Rel. 42, Last annotation update)
E Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D).
S SFTPD OR SFTPD.
S Mus musculus (Mouse).
C Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
C Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
X NCBI_TaxID=10090;
N [1]
P SEQUENCE FROM N.A.
C STRAIN=C57BL/6 X CBA; TISSUE=Lung;
C MEDLINE=96094460; PubMed=7499852;
X Motwani M., White R.A., Guo N., Dowler L.L., Tauber A.I., Sastry K.N.;
T "Local surfactant protein-D. cDNA cloning, characterization, and gene
T localization to chromosome 14".
L J. Immunol. 155:5671-5677(1995).
N [2]
P SEQUENCE FROM N.A.
C STRAIN=129/SV;
X MEDLINE=99244602; PubMed=10226065;
A Lawson P.R., Perkins V.C., Holmskov U., Reid K.B.;
T "Genomic organization of the mouse gene for lung surfactant protein
T D.". *Am. J. Respir. Cell Mol. Biol.* 20:953-963(1999).
N [3]
P SEQUENCE FROM N.A.
A Fisher J.H., Sheftelyevich V.V.;
T "Surfactant protein-D regulates surfactant phospholipid homeostasis in
T vivo".
L Submitted (OCT-1999) to the EMBL/GenBank/DBJ databases.
N [4]
P SEQUENCE FROM N.A.
X MEDLINE=22388257; PubMed=12477932;
A Srausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
A Klausner R.D., Collins F.S., Wagner L., Shermen C.M., Schuler G.D.,
A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
A Scapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
A Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
A Boak S.A., McSwain P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
A Fahy J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
A Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
A Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
A Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,
A Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
T "Generation and initial analysis of more than 15,000 full-length
T human and mouse cDNA sequences".
L Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
C -i- FUNCTION: Contributes to the lung's defense against inhaled
C microorganisms. Binds strongly maltose residues and to a lesser
C extent other alpha-glucosyl moieties. It could participate in the
C extracellular reorganization or turnover of pulmonary surfactant.
C -i- SUBUNIT: Oligomeric complex of 4 set of homotrimers.
C -i- SUBCELLULAR LOCATION: Extracellular.
C -i- MISCELLANEOUS: Pulmonary surfactant consists of 90% lipid and 10%
C protein. There are 4 surfactant-associated protein: 2 collagenous,
C carbohydrate-binding glycoproteins (SP-A and SP-D) and 2 small
C hydrophobic proteins (SP-B and SP-C).
C -i- SIMILARITY: Contains 1 collagenous domain.
C -i- SIMILARITY: Contains 1 C-type lectin family domain.
C
C This SWISS-PROT entry is copyright. It is produced through a collaboration
C between the Swiss Institute of Bioinformatics and the EMBL outstation -
C the European Bioinformatics Institute. There are no restrictions on its
C use by non-profit institutions as long as its content is in no way
C modified and this statement is not removed. Usage by and for commercial

CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@isb-sib.ch).

DR EMBL; L40156; AAA92021.1; .
DR EMBL; AF047742; AAD31380.1; .
DR EMBL; AF047741; AAD31380.1; JOINED.
DR EMBL; AF192134; AAF15277.1; .
DR EMBL; BC003705; AAH03705.1; .
DR HSSP; P35247; I808.
DR MGI; MGI:105515; Sftpd.
DR InterPro; IPR008160; Collagen.
DR InterPro; IPR001304; Lectin C.
DR Pfam; PF01391; Collagen; 3.
DR Pfam; PF00059; lectin C; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN_1; 1.
DR PROSITE; PS00411; C-TYPE LECTIN_2; 1.
DR KW Glycoprotein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
KW Signal; Lectin; Collagen; Repeat; Coiled coil.
FT SIGNAL 1 19
FT CHAIN 20 374
FT PULMONARY SURFACTANT-ASSOCIATED PROTEIN
FT D.
FT DOMAIN 45 221
FT COILED COIL (POTENTIAL).
FT DOMAIN 222 253
FT C-TYPE LECTIN (SHORT FORM).
FT DISULFID 278 374
FT BY SIMILARITY.
FT DISULFID 280 372
FT BY SIMILARITY.
FT DISULFID 350 364
FT BY SIMILARITY.
FT CARBOHYD 89 89
FT N-LINKED (GLCNAC...) (POTENTIAL).
SQ SEQUENCE 374 AA; 37688 MW; FE034261263F43E4 CRC64;
Query Match 22.9%; Score 340; DB 1; Length 374;
Best Local Similarity 32.4%; Pred. No. 1.3e-21;
Matches 80; Conservative 34; Mismatches 107; Indels 26; Gaps 6;
QY 46 PGPKGDDGEGD---PGEEGHGKVGVRGPKGIGKGLGMDGRGNICKTGPIGKKGDKGE 102
DB 134 PGPKEGPKGEVGPAGPQGSGTGAKSGTGPKEGKAPGVQVQAPNAGAAAGPAGPQGA 193
QY 103 KGLLGIPGEKGAGVDCGGRYKRVFGQLDI-SIARLKTGNKFKVNIAGI----- 152
DB 194 PGRGPPGLKGRGVPGD---RGIGESGLPDSALRQQMEALKGLQRLQLEVAFSHYQK 249
QY 153 -----RETTEKFIYVQEEKNYRESLTHCRIGGMLAMPKDEAANTLADYVAKSGFF 205
DB 250 AALFPDGRSVGDKIFRTADSEKPFDAQEMCKAGQGLASPRSTENAAIQOLITAIN-K 308
QY 206 RVFIVGNLREGQYMTDTPLQNSYNWNEGEPDPYGHEDCYEMLSSGRWNTDECHLT 265
DB 309 AAFLSMTDVGTEGKFTYTGPELV-YSNWPAGEPNNNGAENCVEIFTNGQWNDKACGEQ 367
266 MYFVCEP 272 .
368 RLVICEF 374
RESULT 4
PSPD_HUMAN
ID PSPD_HUMAN STANDARD; PRT; 375 AA.
AC P35247;
DT 01-FEB-1994 (Rel. 28, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D).
GN SFTPD OR SFTPD OR PSPD.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Placenta;
RX MEDLINE=93155122; PubMed=8428971;
RA Crouch E., Rust K., Veille R., Donis-Keller H., Grosso L.;

FT	MOD_RES	176	176		HYDROXYLATION.
FT	CONFLICT	89	89	N -> E (IN REF. 2).	
FT	CONFLICT	164	164	K -> C (IN REF. 2).	
SQ	SEQUENCE	374 AA;	37561 MW;	DB2BB5E399DBA43C CRC64;	
 Query Match 22.4%; Score 333; DB 1; Length 374;					
Best Local Similarity 32.1%; Pred. No. 5.le-21;					
Matches	78;	Conservative	36;	Mismatches	111; Indels 18; Gaps 5;
QY	46	PGPKGDDGEGKD---	PGEKSHGVGRMGPKIKGELGMDGMDRGNIGHTGTPIGKKGDKE	102	
		:	:	:	:
DB	134	PGPKEAGPKEGYGAPCMOGSAGAKFAGFKGERGACGAGNAGAAGPAGPQGA	193		
		:	:	:	:
QY	103	KGLLGIPGEKKGATVCDQC-	----	NYRFVGOLDISTARLKTSMKVKN--VI	149
		:	:	:	:
DB	194	PGSRPPGLKDGRCAPCDRGIKGESGLPDSAALRQOMEALNGKLORLEAFSRYKKAALF	253		
		:	:	:	:
QY	150	AGIRETEKPYIVQEKNYRESLTICIRGGMLAMPDEAAANTLIADYVAKSGFFRVFI	209		
		:	:	:	:
DB	254	PDGSVSGDKIFRAANSEEPEDAKEMCRQGQLASPRSATENAQQVLTAHS-KAAFL	312		
		:	:	:	:
QY	210	GVDNLREGOVMTDTNPLONTSNWNEGPSDPYGHEDCVMKSSGRNDTECHLTMYFV	269		
		:	:	:	:
DB	313	SMTDVGTGKTPTTCEALV-YSNWAPGENNGAENCVEIFINGQWDRKACGQRILVI	371		
		:	:	:	:
QY	270	CEP 272			
DB	372	CEF 374			
RESULT 6					
ID	CL46 BOVIN	STANDARD;	PRT;	371 AA.	
AC	Q8MZ9,				
DT	28-FEB-2003 (Rel. 41, Created)				
DT	28-FEB-2003 (Rel. 41, Last sequence update)				
DT	28-FEB-2003 (Rel. 41, Last annotation update)				
DE	Collectin-46 precursor (CL-46) (46 kDa collectin).				
CL	CL46.				
OS	Bos taurus (Bovine).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;				
OC	Bovidae; Bovinae; Bos.				
OX	NCBI_TaxID=9913;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RA	Hansen S., Holm D., Moeller V., Vitved L., Bendixen C., Reid K.B.M.,				
RA	Skjodet K., Holmskov U.				
RT	"CL-46, a novel collectin highly expressed in the bovine thymus and				
RT	liver";				
RL	Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.				
CC	-!- SUSUNIT: Oligomeric complex of 4 set of homotrimers (By				
CC	similarity).				
CC	-!- SUBCELLULAR LOCATION: Secreted.				
CC	-!- TISSUE SPECIFICITY: Highly expressed in thymus and liver.				
CC	-!- PTM: Hydroxylated (Potential).				
CC	-!- SIMILARITY: Contains 1 collagenous domain.				
CC	-!- SIMILARITY: Contains 1 C-type lectin family domain.				

This SWISS-PROT entry is copyright. It is produced through a collaboration					
between the Swiss Institute of Bioinformatics and the EMBL outstation -					
the European Bioinformatics Institute. There are no restrictions on its					
use by non-profit institutions as long as its content is in no way					
modified and this statement is not removed. Usage by and for commercial					
entities requires a license agreement (See http://www.isb-sib.ch/announce/					
or send an email to licens@isb-sib.ch).					

CC	EMBL; AF509589; AAM34742.1; -				
DR	EMBL; AF509590; AAM34743.1; -				
DR	InterPro; IPR008160; Collagen.				
DR	InterPro; IPR001304; Lectin_C.				
DR	Pfam; PF01391; Collagen; 2.				
DR	Pfam; PF00059; Lectin c: 1.				

```

DR SMART; SMO0034; CLEST; 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS00641; C-TYPE LECTIN 2; 1.
KW Lactin; Hydroxylation; Glycoprotein; Mannose-binding; Membrane;
KW Collagen; Repeat; Calcium; Signal.
FT SIGNAL 1 20
FT CHAIN 21 371
FT DOMAIN 46 216
FT DOMAIN 273 371
FT SITE 201 203
FT DISULFID 275 369
FT DISULFID 347 361
FT CARBOHYD 90 90
SQ SEQUENCE 371 AA; 37445 MW; 108AC45A91420E83 CRC64;

Query Match 22.3%; Score 330.5; DB 1; Length 371;
Best Local Similarity 30.1%; Pred. No. 8.2e-21;
Matches 84; Conservative 35; Mismatches 105; Indels 55; Gaps 8;

QY 46 PGPFGDGEKGGDP-----GEEGKHKVGRMPKGIKGLGMDGRGNI-----GKTGP 93
DB 96 PGPFGDTPPGPPGPGAGREGPSGKSGMGPPCTPGPKDTPGKGMGAPGQGGSPG 155
QY 94 IGKKGDKGKGLGTPGEKAGT-----V 118
DB 156 AGLKRGAPGELGAPGSGAGVAGAPAGAPGPGPKGDRGDPGERGAKGESGL 215
QY 119 CDCGRYKRVKGQDLSIARLKTSMKRVNVI--AGIRETEEKFYIIVQEEKYVESLTHC 176
DB 216 ADVNALQKRVITLEGQLQLNAPSRYSKAVLFPDQGVAGKIKFTAGAVKYSYDAQLC 275
QY 177 RIRGGMALPKDEANTLIADTV-AKSGFFRVFVGNDLREGQVMTDNTPLQYHNWN 235
DB 276 REAKGQLAFSRAAENEAQIVRAKN--DAFLSMNDISTEGKFTYPTGBSLV-YSNWA 332
QY 236 EGEPSPYD--HEDCVEMLSGRWMDTECHLTMYPVCEF 272
DB 333 SGEPNNAGQPCNCQIVREGKNDVFCSEPLLVICEF 371

RESULT 7
CONG BOVIN
ID CONG BOVIN STANDARD; PRT; 371 AA.
AC P23805; O97748;
DT 01-NOV-1991 (Rel. 20, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 01-OCT-1996 (Rel. 34, Last annotation update)
DE Conglutinin precursor.
GN CGN1.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=93213261; PubMed=8460993;
RA Suzuki Y., Yin Y., Makino M., Kurimura T., Wakamiya N.;
RT "Cloning and sequencing of a cDNA coding for bovine conglutinin.";
RN Biochem. Biophys. Res. Commun. 191:335-342(1993).
[2]
RP SEQUENCE FROM N.A.
RX MEDLINE=93277452; PubMed=7684896;
RA Lu J., Laursen S.B., Thiel S., Jensenius J.C., Reid B.M.;
RT "The cDNA cloning of conglutinin and identification of liver as a
primary site of synthesis of conglutinin in members of the Bovidae.";
RN Biochem. J. 292:157-162(1993).
[3]
RP SEQUENCE FROM N.A.
RC TISSUE=Liver;
RX MEDLINE=94215917; PubMed=8163202;
RA Liou L.S., Sastry R., Hartshorn K.L., Lee Y.M., Okarma T.B.,
Tauber A.I., Sastry K.N.;

```

```

RT "Bovine conglutinin (BC) mRNA expressed in liver: cloning and
characterization of the BC cDNA reveals strong homology to surfactant
protein-D."; Gene 141:277-281(1994).
[4]
RP SEQUENCE FROM N.A.
RC TISSUE=Semen;
RX MEDLINE=94267222; PubMed=8207234;
RA Liou L.S., Sastry R., Hartshorn K.L., Lee Y.M., Okarma T.B.,
Tauber A.I., Sastry K.N.;
RT "Bovine conglutinin gene exon structure reveals its evolutionary
relationship to surfactant protein-D."; J. Immunol. 153:173-180(1994).
[5]
RP SEQUENCE FROM N.A.
RC TISSUE=Liver;
RX MEDLINE=94128104; PubMed=8297370;
RA Kawasaki N., Itoh N., Kawasaki T.;
RT "Gene organization and 5'-flanking region sequence of conglutinin: a
C-type mammalian lectin containing a collagen-like domain.";
RN Biochem. Biophys. Res. Commun. 198:597-604(1994).
[6]
RP SEQUENCE OF 21-371.
RX MEDLINE=91131556; PubMed=1993651;
RA Lee Y.-M., Leiby K.R., Allar J., Paris K., Lerch B., Okarma T.B.;
RT "Primary structure of bovine conglutinin, a member of the C-type
animal lectin family."; J. Biol. Chem. 266:2715-2723(1991).
[7]
RP PRELIMINARY SEQUENCE OF 21-52.
RX MEDLINE=87184551; PubMed=3566740;
RA Young N.M., Leon M.A.;
RT "The carbohydrate specificity of conglutinin and its homology to
proteins in the hepatic lectin family."; Biochem. Biophys. Res. Commun. 143:645-651(1987).
CC -!- FUNCTION: Calcium-dependent lectin-like protein which binds to a
yeast cell wall extract and immune complexes through the
complement component (C3bi). It is capable of binding nonreducing
terminal N-acetylglucosamine, mannose and fucose residues.
CC -!- SUBUNIT: Oligomeric complex of 4 set of homotrimers.
CC -!- SIMILARITY: Contains 1 collagenous domain.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
between the Swiss Institute of Bioinformatics and the EMBL outstation -
the European Bioinformatics Institute. There are no restrictions on its
use by non-profit institutions as long as its content is in no way
modified and this statement is not removed. Usage by and for commercial
entities requires a license agreement (See http://www.isb-sib.ch/announce/
or send an email to license@isb-sib.ch).
-----
EMBL; D14085; BAA03170.1; -
EMBL; X71774; CAA50565.1; -
EMBL; L18871; AAR20126.1; -
EMBL; U06860; AAB60624.1; -
EMBL; U06854; AAB60624.1; JOINED.
EMBL; U06855; AAB60624.1; JOINED.
EMBL; U06856; AAB60624.1; JOINED.
EMBL; U06857; AAB60624.1; JOINED.
EMBL; U06858; AAB60624.1; JOINED.
EMBL; U06859; AAB60624.1; JOINED.
EMBL; D25302; BAA04983.2; -
EMBL; D25296; BAA04983.2; JOINED.
EMBL; D25297; BAA04983.2; JOINED.
EMBL; D25298; BAA04983.2; JOINED.
EMBL; D25299; BAA04983.2; JOINED.
EMBL; D25300; BAA04983.2; JOINED.
EMBL; D25301; BAA04983.2; JOINED.
EMBL; D25301; BAA04983.2; JOINED.
PIR; I45878; I45878.
PIR; JN0450; JN0450.
HSSP; P35247; 1B08.
InterPro; IPR008161; Clg_helix.
InterPro; IPR008160; Collagen.

```


QY 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLERSQWFTDNTPLQNSWNGERS 240
Db 159 GRIAVPRSLRENEAIVSKERNY-AYGLAEGTAGDFYLDGDEV-NYTNWYFGEPR 216
QY 241 DRYGHEDCEVEMLSGRWMDTCHLTMFVCECF 272
Db 217 G-QGREKCVMTYDCKWKNCKLOVRLVICEF 247

RESULT 9
MABA_RAT
ID MABA_RAT STANDARD; PRT; 238 AA.
AC P19999;
DT 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 15-WAR-2004 (Rel. 43, Last annotation update)
DE Mannose-binding protein A precursor (MBP-A) (Mannan-binding protein).
GN MELI.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
OX NCBI_TaxID=10116;
RN [1]_TaxID=10116;
RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
RC TISSUE=Liver;
RX MEDLINE=86196130; PubMed=3009480;
RA Drickamer K., Dordal M.S., Reynolds L.;
RT "Mannose-binding proteins isolated from rat liver contain
carbohydrate-recognition domains linked to collagenous tails.
Complete primary structures and homology with pulmonary surfactant
apoprotein.";
RL J. Biol. Chem. 261:6878-6887(1986).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Liver;
RX MEDLINE=87137502; PubMed=3029088;
RA Drickamer K., McCreary V.;
RT "Exon structure of a mannose-binding protein gene reflects its
evolutionary relationship to the asialoglycoprotein receptor and
nonfibrillar collagens.";
RL J. Biol. Chem. 262:2582-2589(1987).
RN [3]
RP SEQUENCE OF 18-42.
RX MEDLINE=87223358; PubMed=3584121;
RA Ikeda K., Sannoh T., Kawasaki N., Kawasaki T., Yamashina I.;
RT "Serum lectin with known structure activates complement through the
classical pathway.";
RL J. Biol. Chem. 262:7451-7454(1987).
RN [4]
RP X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS) OF 124-238.
RX MEDLINE=92086855; PubMed=1721241;
RA Weis W.I., Kahn R., Fourme R., Drickamer K., Hendrickson W.A.;
RT "Structure of the calcium-dependent lectin domain from a rat mannose-
binding protein determined by MAD phasing.";
RL Science 254:1608-1615(1991).
RN [5]
RP X-RAY CRYSTALLOGRAPHY (1.7 ANGSTROMS) OF 124-238.
RX MEDLINE=93063338; PubMed=1436090;
RA Weis W.I., Drickamer K., Hendrickson W.A.;
RT "Structure of a C-type mannose-binding protein complexed with an
oligosaccharide.";
RL Nature 360:127-134(1992).
RN [6]
RP X-RAY CRYSTALLOGRAPHY (1.8 ANGSTROMS) OF 84-238.
RX MEDLINE=95219384; PubMed=7704532;
RA Weis W.I., Drickamer K.;
RT "Trimeric structure of a C-type mannose-binding protein.";
RL Structure 2:1227-1240(1994).
RN [7]
RP X-RAY CRYSTALLOGRAPHY (1.9 ANGSTROMS) OF 90-238.
RX MEDLINE=99119227; PubMed=9922165;
RA Ng K.K.-S., Park-Snyder S., Weis W.I.;

RT "Ca2+-dependent structural changes in C-type mannose-binding
proteins.";
RL Biochemistry 37:17965-17976(1998).
CC -!- FUNCTION: Binds mannose and N-acetylglucosamine in a calcium-
dependent manner. Is capable of host defense against pathogens, by
activating the classical complement pathway independently of the
antibody.
CC -!- SUBUNIT: Oligomeric complex of 6 set of homotrimers.
CC -!- SUBCELLULAR LOCATION: THIS PROTEIN IS LOCATED INTRACELLULAR, MOST
PREDOMINANTLY IN THE ROUGH ENDOPLASMIC RETICULUM AND IN THE GOLGI
APPARATUS, AND LITTLE OR NO MBP IS PRESENT IN PLASMA MEMBRANES AND
LYSOSOMES. THE MBP IS EXCLUSIVELY LOCALIZED IN THE CISTERNA SPACE
OF THE ORGANELLES, PROBABLY AS A LOOSELY BOUND MEMBRANE PROTEIN.
CC -!- SIMILARITY: Contains 1 collagenous domain.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
between the Swiss Institute of Bioinformatics and the EMBL outstation
at the European Bioinformatics Institute. There are no restrictions on its
use by non-profit institutions as long as its content is in no way
modified and this statement is not removed. Usage by and for commercial
entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
or send an email to license@isb-sib.ch).
CC
DR EMBL; M14105; AAA98781.1; -;
DR EMBL; M14104; AAA98781.1; JOINED.
DR PIR; B24791; LNETMA.
DR PDB; 1MSB; 15-JAN-92.
DR PDB; 2MSB; 31-OCT-93.
DR PDB; 1AFA; 03-APR-96.
DR PDB; 1AFB; 03-APR-96.
DR PDB; 1AFD; 03-APR-96.
DR PDB; 1ATM; 07-FEB-95.
DR PDB; 1KMB; 12-FEB-97.
DR PDB; 2KMB; 12-FEB-97.
DR PDB; 3KMB; 12-FEB-97.
DR PDB; 4KMB; 12-FEB-97.
DR PDB; 1VTT; 10-JUN-96.
DR PDB; 1BCH; 17-JUN-98.
DR PDB; 1BCU; 17-JUN-98.
DR PDB; 1BUU; 09-SEP-99.
DR PDB; 1FIF; 10-JAN-01.
DR PDB; 1FIH; 10-JAN-01.
DR PDB; 1KWT; 05-JUL-02.
DR PDB; 1KWJ; 05-JUL-02.
DR PDB; 1KWV; 05-JUL-02.
DR PDB; 1KWW; 05-JUL-02.
DR PDB; 1KWX; 05-JUL-02.
DR PDB; 1KWY; 05-JUL-02.
DR PDB; 1KXZ; 05-JUL-02.
DR PDB; 1KX0; 05-JUL-02.
DR PDB; 1KX1; 05-JUL-02.
DR InterPro; IPR008160; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF01391; Collagen; 1.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS00041; C-TYPE LECTIN 2; 1.
KW Complement pathway; Membrane; Mannose-binding; Calcium; Repeat;
Signal; Collagen; Lectin; Glycoprotein; Hydroxylation; 3D-structure.
FT SIGNAL 1 17
FT CHAIN 18 238 MANNOSE-BINDING PROTEIN A.
FT DOMAIN 39 88 COLLAGEN-LIKE.
FT DOMAIN 143 238 C-TYPE LECTIN (SHORT FORM).
FT MOD_RES 43 43 HYDROXYLATION (POTENTIAL).
FT MOD_RES 61 61 HYDROXYLATION.
FT MOD_RES 67 67 HYDROXYLATION.
FT MOD_RES 73 73 HYDROXYLATION (POTENTIAL).
FT MOD_RES 78 79
FT DISULFID 145 234
FT DISULFID 212 226
FT CONFLICT 156 156 R -> K (IN REF. 2).

```

T HELIX      91      119
T TURN      120      121
T TURN      124      125
T STRAND    128      136
T HELIX     138      147
T TURN      148      149
T STRAND    151      152
T HELIX     158      168
T TURN      172      177
T STRAND    182      183
T TURN      186      187
T TURN      188      189
T STRAND    192      192
T STRAND    198      198
T TURN      200      201
T TURN      207      208
T STRAND    212      215
T TURN      217      218
T STRAND    221      224
T TURN      226      227
T STRAND    230      236
T SEQUENCE  238 AA; 25308 MW; 1A927482B8A8CB3D CRC64;

Query Match      19.5%; Score 290; DB 1; Length 238;
Best Local Similarity 28.7%; Pred No. 1,4e-17;
Matches 75; Conservative 49; Mismatches 105; Indels 32; Gaps 8;

Y 14 ILVLFLQIQSLGDLIDSRPAEVCATHTISPGKGDGEGKDPGEGKHGKVRGVPX 73
b 6 LLVLLCVSVSSGSGQ-TCEETLTKTCS-VIACGRDGRDGPKEGKGPQG-----GLR 55
Y 74 GIKGELGDMGDRGNIGTPIGKKGKGEKGLGIPGEGKAGTVCDGGRYKRVFGOLDI 133
b 56 GLOGPFGKLGPGSVGAPGSGQPKGQKGDG-----DSRAIEVKLANVEA 100
Y 134 SIARLTKSMFKVRNVIAGI--RETBEKFYIVQEEKNYRESLTHCRINGGMLAMPKDEAA 191
b 101 EINTLKSLELTNKLHAFSGMKSGKSKPKFVTNHERMPFSKYKALCSELGRGTVAIPRAEE 160
Y 192 NTLIADYVAKSGFRFVIGVNDLEREGQYMTDNTPLQYNSWNEGEPSPDYGHEDCVEM 251
b 161 NKAIQE-VAKTS---AFLGITDEVTEGQPMYVTGGRL-TYSNNWKDEPNHGSGEDCVTI 215
Y 252 LSSGRWNDECHLTMTYVCEEF 272
b 216 VDNLGNLWDISQASHATVCEEF 236

RESULT 10
ABC MOUSE
D MABC MOUSE STANDARD; PRT; 244 AA.
C P41317;
T 01-FEB-1995 (Rel. 31, Created)
T 01-FEB-1996 (Rel. 33, Last sequence update)
T 15-MAR-2004 (Rel. 43, Last annotation update)
E Mannose-binding protein C precursor (MBP-C) (Mannan-binding protein)
E (2A-reactive factor P28A subunit) (RARF/P28A).
N MBL2.
S Mus musculus (Mouse).
C Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
C Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
X NCBI_TaxID=10090;
P [1]
P SEQUENCE FROM N.A.
P STRAIN=CBA/J; TISSUE=Liver;
C MEDLINE=91302823; PubMed=1712818;
A Sastry K., Zahedi K., Lelias J.M., Whitehead A.S., Ezekowitz R.A.;
T "Molecular characterization of the mouse mannose-binding proteins.
L The mannose-binding protein A but not C is an acute phase reactant.";
L J. Immunol. 147:692-697(1991).
N [2]
P SEQUENCE FROM N.A.
C STRAIN=BALB/c;

```

```

RX MEDLINE=95284466; PubMed=7766991;
RA Sastry R., Wang J.S., Brown D.C., Ezekowitz R.A., Tauber A.I.,
RA Sastry K.N.;
RT "Characterization of murine mannose-binding protein genes Mb11 and
RT Mb12 reveals features common to other collectin genes.";
RL Mamm. Genome 6:103-110(1995).
RN [3]
RP SEQUENCE FROM N.A.
RA Kuge S., Ihara S., Watanabe E., Watanabe M., Takishima K., Suga T.,
RA Mamaiya G., Kawakami M.;
RL Submitted (JUL-1992) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N; TISSUE=Liver;
RX MEDLINE=22389257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klusner R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.P., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Locuallano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Sanchez A.,
RA Fahy J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield J.S.N., Krzywinski M.I., Skalska U., Smallos D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
RT human and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC -!- FUNCTION: Binds mannose and N-acetylglucosamine in a calcium-
CC dependent manner. Is capable of host defense against pathogens, by
CC activating the classical complement pathway independently of the
CC antibody.
CC -!- SUBUNIT: Oligomeric complex of 6 set of homotrimers.
CC -!- SUBCELLULAR LOCATION: THIS PROTEIN IS LOCATED INTRACELLULAR, MOST
CC PREDOMINANTLY IN THE ROUGH ENDOPLASMIC RETICULUM AND IN THE GOLGI
CC APPARATUS. AND LITTLE OR NO MBP IS PRESENT IN PLASMA MEMBRANES AND
CC LYSOSOMES. THE MBP IS EXCLUSIVELY LOCALIZED IN THE CISTERNA
CC SPACE OF THE ORGANELLES, PROBABLY AS A LOOSELY BOUND MEMBRANE
CC PROTEIN.
CC -!- SIMILARITY: Contains 1 collagenous domain.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; S42294; AAB19343.1; -
CC EMBL; U09016; AAA82010.1; -
CC EMBL; U09013; AAA82010.1; JOINED.
CC EMBL; U09014; AAA82010.1; JOINED.
CC EMBL; U09015; AAA82010.1; JOINED.
CC EMBL; D11440; AAA02005.1; -
CC EMBL; BC010760; AAH10760.1; -
CC FTR; I48651; LNM5MC.
CC HSSP; P08661; 1RDO.
CC MGD; MGI:96924; Mb12.
CC InterPro; IPR008160; Collagen.
CC InterPro; IPR01304; Lectin_C.
CC Pfam; PF01391; Collagen; 1.
CC Pfam; PF00059; lectin_c; 1.
CC SMART; SM00034; CLECT; 1.
CC PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.

```

DR PROSITE: PS50041; C-TYPE LECTIN 2; 1.
KW Complement pathway; Membrane; Mannose-binding; Calcium; Repeat;
FT SIGNAL 1 18
FT CHAIN 19 244
FT DOMAIN 129 241
FT MOD_RES 43 43
FT MOD_RES 58 58
FT MOD_RES 69 69
FT MOD_RES 78 78
FT MOD_RES 81 81
FT DISULFID 29 29
FT DISULFID 34 34
FT DISULFID 151 240
FT DISULFID 218 232
FT CONFLICT 3 3
FT CONFLICT 15 15
SQ SEQUENCE 244 AA; 25957 MW; 49AE84E2290DEB0A CRC64;
Query Match 19.5%; Score 290; DB 1; Length 244;
Best Local Similarity 28.8%; Pred. No. 1.4e-17;
Matches 80; Conservative 56; Mismatches 100; Indels 42; Gaps 11;
QY 1 MNGPASLRRNQIFLLVFLQISGLDIDSRPTAEVCATHRTIS--PGPKGDDGKGGDP 58
Db 1 MSIFTSFL-----LLCVTVVVAETLTGVQNSCPVVTCTSPGLNGPPGKXGRDGAKGEK 55
QY 59 GEGGHKGVGRMPKGIKGLGDWDRGNICKTGPICKGDKGKGLGPGKEKGKATV 118
Db 56 GEPGQ-----GLKGLGPPGKVGTPGPPGNPLGKAVGPKGDRGDA----- 97
QY 119 CDCGRYRF-VQQLDISIARLKTSMKFKYN-VIAGIRETEEFYIVQEEKNYRESL-TH 175
Db 98 -----EFDTEIDSEIDTAALRSALRWLFLSLGEKVKGYFVSSVKMSLDKVKAL 150
QY 176 CIRGGLAMPKDEAANTLIADYAKSFFRVFTGVNDLREGEYMTDNTPLQ-NYSNW 234
Db 151 CSEFGQSVATPRNAENSAL-QKVAKD---IAYGITDVRVEGS--PEDLTGNRVRTNW 204
QY 235 NGEPSDPYGHEDCVMLSSGRWNDECHLTWYVCFEF 272
Db 205 NDGEPNNTGDEDCVVLNGKGNWDPVCSDFLAICEF 242
RESULT 11
MABC HUMAN
ID MABC HUMAN STANDARD; PRT; 248 AA.
AC P11226; O86S14; Q96KE4; Q96TF7; Q96TF8; Q96TF9;
DT 01-JUL-1989 (Rel. 11, Created)
DT 01-APR-1990 (Rel. 14, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Mannose-binding protein C precursor (MBP-C) (MBP1) (Mannan-binding
DE protein) (Mannose-binding lectin).
GN MBL2 OR MBL.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Liver;
RX MEDLINE=90010778; PubMed=2477486;
RA Sastry K., Herman G.A., Day L.E., Deignan E., Bruns G., Morton C.C.,
RA Ezekowitz R.A.B.;
RT "The human mannose-binding protein gene. Exon structure reveals its
RT evolutionary relationship to a human pulmonary surfactant gene and
RT localization to chromosome 10.";
RL J. Exp. Med. 170:1175-1189(1989).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=88171281; PubMed=2450948;
RA Ezekowitz R.A.B., Day L.E., Herman G.A.;

RT "A human mannose-binding protein is an acute-phase reactant that
RT shares sequence homology with other vertebrate lectins.";
RL J. Exp. Med. 167:1034-1046(1988).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=90073571; PubMed=2590164;
RA Taylor M.E., Brickell P.M., Craig R.K., Summerfield J.A.;
RT "Structure and evolutionary origin of the gene encoding a human serum
RT mannose-binding protein.";
RL Biochem. J. 262:763-771(1989).
RN [4]
RP SEQUENCE FROM N.A., AND VARIANTS CYS-52; ASP-54 AND GLU-57.
RX MEDLINE=98414317; PubMed=9743385;
RA Madsen H.O., Satz M.L., Hoch B., Svejgaard A., Garred P.;
RT "Different molecular events result in low protein levels of mannan-
RT binding lectin in populations from South-East Africa and South
RT America.";
RL J. Immunol. 161:3169-3175(1998).
RN [5]
RP SEQUENCE FROM N.A., AND VARIANT ALA-24.
RC TISSUE=Liver;
RA Chen Z., Zhu X., Xie P.;
RT "Cloning and sequencing of mannan-binding lectin cDNA of Chinese.";
RL Mian Yi Xue Za Zhi 15:83-86(1999).
RN [6]
RP PARTIAL SEQUENCE.
RC TISSUE=Liver, and Plasma;
RX MEDLINE=95073978; PubMed=7982896;
RA Kurata H., Sannoh T., Kozutsumi Y., Yokota Y., Kawasaki T.;
RT "Structure and function of mannan-binding proteins isolated from
RT human liver and serum.";
RL J. Biochem. 115:1148-1154(1994).
RN [7]
RP SEQUENCE OF 1-59 FROM N.A., AND VARIANT ASP-54.
RX MEDLINE=22167090; PubMed=12175909;
RA Jueliger S., Krensmeyer P.G., Alpers M.P., Reeder J.C., Kun J.F.J.;
RT "Restricted polymorphisms of the mannose-binding lectin gene in a
RT population of Papua New Guinea.";
RL Mutat. Res. 505:87-91(2002).
RN [8]
RP X-RAY CRYSTALLOGRAPHY (2.5 ANGSTROMS) OF 108-248.
RX MEDLINE=95360730; PubMed=7634089;
RA Sheriff S., Chang C.Y., Ezekowitz R.A.;
RT "Human mannose-binding protein carbohydrate recognition domain
RT trimerizes through a triple alpha-helical coiled-coil.";
RL Nat. Struct. Biol. 1:789-794(1994).
RN [9]
RP VARIANT ASP-54.
RX MEDLINE=91269930; PubMed=1675710;
RA Sumiya M., Super M., Tabona P., Levinsky R.J., Turner M.W.,
RA Summerfield J.A.;
RT "Molecular basis of opsonic defect in immunodeficient children.";
RL Lancet 337:1569-1570(1991).
RN [10]
RP VARIANTS ASP-54 AND GLU-57.
RX MEDLINE=93258313; PubMed=1304173;
RA Lipscombe R.J., Sumiya M., Hill A.V.S., Lau Y.L., Levinsky R.J.,
RA Summerfield J.A., Turner M.W.;
RT "High frequencies in African and non-African populations of
RT independent mutations in the mannose binding protein gene.";
RL Hum. Mol. Genet. 1:709-715(1992).
RN [11]
RP ERRATUM.
RA Lipscombe R.J., Sumiya M., Hill A.V.S., Lau Y.L., Levinsky R.J.,
RA Summerfield J.A., Turner M.W.;
RL Hum. Mol. Genet. 2:342-342(1993).
RN [12]
RP VARIANT ASP-54.
RX MEDLINE=93265124; PubMed=1303250;
RA Super M., Gillies S.D., Foley S., Sastry K., Schweinle J.E.,
RA Silverman V.J., Ezekowitz R.A.;
RT "Distinct and overlapping functions of allelic forms of human mannose
RT binding protein.";

L Nat. Genet. 2:50-55(1992).
 N [13]
 P VARIANTS CYS-52; ASP-54 AND GLU-57.
 X MEDLINE=99374928; PubMed=10447262.
 A Gaboide M., Muralitharan S., Besmond C.;
 T Genotyping of the three major allelic variants of the human
 T mannose-binding lectin gene by denaturing gradient gel
 T electrophoresis.";
 L Hum. Mutat. 14:80-83(1999).
 C -1- FUNCTION: Binds mannose and N-acetylglucosamine in a calcium-
 C dependent manner. Is capable of host defense against pathogens,
 C by activating the classical complement pathway independently of
 C the antibody.
 C -1- SUBUNIT: Oligomeric complex of 6 set of homotrimers.
 C -1- DISEASE: There is an association between low levels of MBL2 and a
 C defect of opsonization which results in susceptibility to frequent
 C and chronic infections.
 C -1- SIMILARITY: Contains 1 collagenous domain.
 C -1- SIMILARITY: Contains 1 C-type lectin family domain.
 C -1- CAUTION: There are extensive differences between the revised
 C sequence in Ref.1 and that published in Ref.2.
 C -----
 C This SWISS-PROT entry is copyright. It is produced through a collaboration
 C between the Swiss Institute of Bioinformatics and the EMBL outstation -
 C the European Bioinformatics Institute. There are no restrictions on its
 C use by non-profit institutions as long as its content is in no way
 C modified and this statement is not removed. Usage by and for commercial
 C entities requires a license agreement (See [http://www.isb-sib.ch/announcements/](http://www.isb-sib.ch/announcements)
 C or send an email to license@isb-sib.ch).
 C -----
 R EMBL; X15422; CAA33462.1; -
 R EMBL; X15954; CAA34079.1; -
 R EMBL; X15955; CAA34079.1; JOINED.
 R EMBL; X15956; CAA34079.1; JOINED.
 R EMBL; X15957; CAA34079.1; JOINED.
 R EMBL; AF080510; AAC31937.1; -
 R EMBL; AF080508; AAC31937.1; JOINED.
 R EMBL; AF080509; AAC31937.1; JOINED.
 R EMBL; Y16576; CAB56044.1; -
 R EMBL; Y16577; CAB56120.1; -
 R EMBL; Y16578; CAB56045.1; -
 R EMBL; Y16579; CAB56121.1; -
 R EMBL; Y16580; CAB56122.1; -
 R EMBL; Y16581; CAB56123.1; -
 R EMBL; Y16582; CAB56124.1; -
 R EMBL; AF360991; AAK52907.1; -
 R EMBL; AF482699; AAN39274.1; -
 R EMBL; AF482700; AAN39275.1; -
 R PIR; JLO115; LNHUNC.
 R PDB; 1HUP; 15-OCT-95.
 R Genew; HGNC:6922; MBL2.
 R MIM; 154545; -
 R GO; GO:0005615; C:extracellular space; TAS.
 R GO; GO:0003793; F:defense/immunity protein activity; TAS.
 R GO; GO:0008955; P:immune response; TAS.
 R InterPro; IPR008160; Collagen.
 R InterPro; IPR001304; Lectin_C.
 R Pfam; PF01391; Collagen; 1.
 R Pfam; PF00059; lectin c; 1.
 R SMART; SM00034; CLECT; 1.
 R PROSITE; PS00615; C-TYPE LECTIN 1; 1.
 R PROSITE; PS50041; C-TYPE LECTIN 2; 1.
 W Complement pathway; Membrane; Mannose-binding; Calcium; Repeat;
 W Signal; Collagen; Lectin; Glycoprotein; Hydroxylation; Polymorphism;
 W 3D-structure.
 T SIGNAL 1 20
 T CHAIN 21 248
 T DOMAIN 21 41
 T CYS-RICH 42 99
 T COLLAGEN-LIKE 134 245
 T C-TYPE LECTIN 47 47
 T MOD_RES 73 73
 T HYDROXYLATION 73 73
 T MOD_RES 79 79
 T HYDROXYLATION.

FT MOD_RES 82 82 HYDROXYLATION.
 FT MOD_RES 88 88 HYDROXYLATION.
 FT DISULFID 155 244
 FT DISULFID 222 236
 FT VARIANT 24 24
 FT VARIANT 52 52
 FT VARIANT 54 54
 FT VARIANT 57 57
 FT TURN 109 109
 FT HELIX 110 129
 FT TURN 130 130
 FT TURN 132 134
 FT STRAND 135 136
 FT STRAND 137 147
 FT HELIX 148 157
 FT TURN 158 159
 FT STRAND 161 162
 FT HELIX 168 177
 FT STRAND 182 187
 FT TURN 192 193
 FT STRAND 196 197
 Query Match 19.5%; Score 289.5; DB 1; Length 248;
 Best Local Similarity 31.1%; Pred. No. 1.6e-17;
 Matches 75; Conservative 37; Mismatches 100; Indels 29; Gaps 7;
 QY 34 PRAEVCATHTIS--PGPKGDDGEGKDFGEGKGVKGRMGPKGIKGLGDMGRGNIGKT 91
 DB 33 PAVIACSSPGINGPFKDGDRGTGKGEFGQ-----GLRGLQGPFGKLGPGNPGPS 85
 QY 92 GFIGKKGDKGKGLLIGPEKKGAGTVCDCGRYKRVFGQLDISIARLKTSMKFTVGNVIAG 151
 DB 86 GSPGPKGQKDPG-----KSPGDSLSLAASEK---ALQTEWARIKKWLTFSLG---- 131
 QY 152 IRETEEKFYIVQBEKNYRESLTHCRIRGGMAMPKDEAANTLIADYVAKSGGFRVFIGV 211
 DB 132 -KQVGNKFFLTNGEIMTFEKVKALCVRFASVATPRNAENGAIONLIKE-----EAPLGI 186
 QY 212 NDLEEGGYMTFDTNPLQNTSNWNEGPPSPYGHEDCVEMLSGRWNTDTEHLTMYFVCE 271
 DB 187 TDEKTEGQFVLDLTGNRL--TYINWEGEPNAGSDSDCVLLKNGQWNVPCSTSHLAVCE 245
 QY 272 F 272
 DB 246 F 246
 RESULT 12
 PSPA_PIG STANDARD; PRT; 249 AA.
 ID PSPA_PIG
 AC P49874;
 DT 01-OCT-1996 (Rel. 34, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A)
 DE (PSPAP).
 GN SFTPA1 OR SFTPA OR SFTPI.
 OS Sus scrofa (Pig).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Butheria; Cetartiodactyla; Suina; Suidae; Sus.
 OX NCBI_TaxID=9823;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Lung;
 RA Adamou J.E., Elshourbagy N.A.;
 RL Submitted (APR-1995) to the EMBL/GenBank/DBJ databases.

```

CC -!- FUNCTION: In presence of calcium ions, PSAP binds to surfactant
CC phospholipids and contributes to lower the surface tension at the
CC air-liquid interface in the alveoli of the mammalian lung and is
CC essential for normal respiration.
CC -!- SUBUNIT: Oligomeric complex of 6 set of homotrimers.
CC -!- MISCELLANEOUS: Pulmonary surfactant consists of 90% lipid and 10%
CC protein. There are 4 surfactant-associated proteins: 2 collagenous,
CC carbohydrate-binding glycoproteins (SP-A and SP-D) and 2 small
CC hydrophobic proteins (SP-B and SP-C) (By similarity).
CC -!- SIMILARITY: Contains 1 collagenous domain.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC
CC EMBL; L41350; AAA88403.1; -.
CC HSSP; P22897; LEGS.
CC InterPro; IPR008160; Collagen.
CC InterPro; IPR001304; Lectin C.
CC Pfam; PF01391; Collagen; 2.
CC SMART; SM00034; CLECT; 1.
CC PROSITE; PS00615; C TYPE LECTIN 1; 1.
CC PROSITE; PS50041; C TYPE LECTIN 2; 1.
CC Glycoprotein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
CC Signal; Lectin; Collagen; Repeat.
CC SIGNAL 1 20 POTENTIAL.
CC CHAIN 21 249 PULMONARY SURFACTANT-ASSOCIATED PROTEIN
CC A.
CC DOMAIN 28 100 COLLAGEN-LIKE.
CC DOMAIN 153 249 C-TYPE LECTIN (SHORT FORM).
CC DISULFID 155 247 BY SIMILARITY.
CC DISULFID 225 239 BY SIMILARITY.
CC CARBOHYD 208 208 N-LINKED (GLCNAC...) (POTENTIAL).
CC SEQUENCE 249 AA; 26702 MW; 3C4E05AD07F2A7CD CRC64;
CC
CC Query Match 19.2%; Score 285.5; DB 1; Length 249;
CC Best Local Similarity 31.2%; Pred No. 3.5e-17;
CC Matches 85; Conservative 35; Mismatches 111; Indels 41; Gaps 12;
CC
CC QY 14 ILVLFLQIQSLGIDISRPTAEVCATHITISPGKGDGKDPGEGKHGKVGKRGPK 73
CC Db. 6 LAUTFLLAVSLGCDV-----KEYCLA---SPGIPGTPGSHGLPGRDGRGKDPGPP 57
CC
CC QY 74 GTKGLGMDGRGNIGTKGPIGKKGKGLGIPGKKGKAGTVCDCGRYKRVGQLDI 133
CC Db. 58 GPMGPPGMA--GPPQDGMIGAPLPGERKEGEPGPPG-----LPAHLD- 104
CC
CC QY 134 SIARLKTSMKFKVNI---AGIRETEKXYIVQEKNYRE-----SLTHC-RIRG 180
CC Db. 105 --EELQSALHEIRHQILQSMGVLSFQE--FMLAVGEKVFSTNGQSVAFMWSLSCVPEQV 160
CC
CC QY 181 GMLAMPKQBAANTLADYVAKSGFRFVIGVNDLERGOYMTDNTLQNYSNWNEGERS 240
CC Db. 161 GRIAAPRSPENEAASIVKKNHTY-AVLGVGEGPTAGDFYLDGTPV-NYTNWYCEPR 218
CC
CC QY 241 DPYGHEDCVMSSGRWNTDECHLTMYVCEFF 272
CC Db. 219 G-RGKEKCVMTDQWDRNCQQYRLAICEF 249
CC
CC RESULT 13
CC MABC_BOVIN STANDARD; PRT; 249 AA.
CC AC C02659;
CC DT 30-MAY-2000 (Rel. 39, Created)
CC DT 30-MAY-2000 (Rel. 39, Last sequence update)

```

```

DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Mannose-binding protein C precursor (MBP-C) (Mannan-binding protein).
GN MBL.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RX TISSUE=Liver;
RA MEDLINE=97228413; PubMed=9074491;
RA Kawai T., Suzuki Y., Ida S., Ohtani K., Kase T., Fujinaga Y.,
RT "Cloning and characterization of a cDNA encoding bovine mannan-binding
RT protein.";
RL Gene 186:161-165(1997).
CC -!- FUNCTION: Binds mannose and N-acetylglucosamine in a calcium-
CC dependent manner. Is capable of host defense against pathogens, by
CC activating the classical complement pathway independently of the
CC antibody (By similarity).
CC -!- SUBUNIT: Oligomeric complex of 6 set of homotrimers.
CC -!- SIMILARITY: Contains 1 collagenous domain.
CC -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC
CC EMBL; D73408; BAA18935.1; -.
CC HSSP; P11226; LHUP.
CC InterPro; IPR008161; Clq helix.
CC InterPro; IPR008160; Collagen.
CC InterPro; IPR001304; Lectin C.
CC Pfam; PF01391; Collagen; 1.
CC Pfam; PF00059; Lectin C; 1.
CC ProDom; PD000007; Clq_helix; 1.
CC SMART; SM00034; CLECT; 1.
CC PROSITE; PS00615; C TYPE LECTIN 1; 1.
CC PROSITE; PS50041; C TYPE LECTIN 2; 1.
CC Complement pathway; Membrane; Mannose-binding; Calcium; Repeat;
CC Signal; Collagen; Lectin; Glycoprotein; Hydroxylation.
CC SIGNAL 1 20 POTENTIAL.
CC CHAIN 21 249 MANNOSE-BINDING PROTEIN C.
CC DOMAIN 43 101 COLLAGEN-LIKE.
CC DOMAIN 135 246 C-TYPE LECTIN.
CC MOD_RES 48 48 HYDROXYLATION (POTENTIAL).
CC MOD_RES 63 63 HYDROXYLATION (POTENTIAL).
CC MOD_RES 74 74 HYDROXYLATION (POTENTIAL).
CC MOD_RES 83 83 HYDROXYLATION (POTENTIAL).
CC MOD_RES 86 86 HYDROXYLATION (POTENTIAL).
CC DISULFID 34 34 INTERCHAIN (BY SIMILARITY).
CC DISULFID 39 39 INTERCHAIN (BY SIMILARITY).
CC DISULFID 156 245 BY SIMILARITY.
CC DISULFID 223 237 BY SIMILARITY.
CC SEQUENCE 249 AA; 26471 MW; 29FC9F5927A66DD5 CRC64;
CC
CC Query Match 19.2%; Score 284.5; DB 1; Length 249;
CC Best Local Similarity 34.5%; Pred. No. 4.2e-17;
CC Matches 77; Conservative 31; Mismatches 94; Indels 21; Gaps 8;
CC
CC QY 56 GDPGEGKHGKVGKGMGPKIGKGLGMDGRGNIGTKGPIGKKGKGLGIP---GEK 112
CC Db. 40 GPPGINGIPGKDGKDGAKGKGEFG---OELRGSGGPPGKMGPPQTPIGPIGPIGK 95
CC
CC QY 113 KAGATVDCGRYKRVGQLDISIRLKTSMKFKVNI---VIAGIRETEKXYIVQEKNYR 170
CC Db. 96 GDPGE--NMGDYRLATS---ERATLQSELNQIKNWLIFSLGKRVGKGAFFNGKMPFN 150

```

```

Y 171 ESILTHCRIRGMLAMPKDPRAANTLIADYVAKSGPRFVIGVNDLEREGQYMTDNTPL-Q 229
b 151 EVKTLCAQGRVATPMNAENRALKDLVTE-----EALGIDTQETEGK--FVDLTGKV 204
Y 230 NYSNNWNEGSPDPYGHEDCVEMLSGRWNTDEHLTMFVCEP 272
b 205 TYQWNWDGEPNNASPGCHCVTLISDGTWNDIACSASFVTVCEP 247

RESULT 14
SPA_HUMAN STANDARD; PRT; 248 AA.
D PSPA_HUMAN
C P07714;
T 01-APR-1988 (Rel. 07, Created)
T 01-APR-1990 (Rel. 14, Last sequence update)
T 28-FEB-2003 (Rel. 41, Last annotation update)
E Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A)
E (PSPAP) (Alveolar proteinosis protein) (35 kDa pulmonary surfactant-
E associated protein).
E (SFTPA1 OR SFTPA OR SFTPI OR PSPAP) AND (SFTPA2 OR SFTPA).
S Homo sapiens (Human).
C Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
C Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
X NCBI_TaxID=9606;
N [1]
N [2]
N [3]
X MEDLINE=86250832; PubMed=3755136;
A Flores J., Steinbrink R., Jacobs K., Phelps D., Kziz R., Rechy M.,
A Sultman L., Jones S., Tausch H.W., Frank H.A., Fritsch E.F.,
T "Isolation and characterization of cDNA clones for the 35-kDa
T pulmonary surfactant-associated protein.";
L J. Biol. Chem. 261:9029-9033(1986).
N [2]
N [3]
X MEDLINE=86250832; PubMed=3755136;
A Flores J., Steinbrink R., Jacobs K., Phelps D., Kziz R., Rechy M.,
A Benson B., Cordell B.,
T "Isolation and characterization of the human pulmonary surfactant
T apoprotein gene.";
L Nature 317:361-363(1995).
N [3]
X MEDLINE=92198680; PubMed=1372511;
A Katyal S.L., Singh G., Locker J.L.;
T "Characterization of a second human pulmonary surfactant-associated
T protein SP-A gene.";
L Am. J. Respir. Cell Mol. Biol. 6:446-452(1992).
C -I- FUNCTION: In presence of calcium ions, PSAP binds to surfactant
C phospholipids and contributes to lower the surface tension at the
C air-liquid interface in the alveoli of the mammalian lung and is
C essential for normal respiration.
C -I- SUBUNIT: Oligomeric complex of 6 set of homotrimers.
C -I- SUBCELLULAR LOCATION: Extracellular.
C -I- MISCELLANEOUS: Pulmonary surfactant consists of 90% lipid and 10%
C protein. There are 4 surfactant-associated protein: 2 collagenous,
C carbohydrate-binding glycoproteins (SP-A and SP-D) and 2 small
C hydrophobic proteins (SP-B and SP-C).
C -I- SIMILARITY: Contains 1 collagenous domain.
C -I- SIMILARITY: Contains 1 C-type lectin family domain.
C This SWISS-PROT entry is copyright. It is produced through a collaboration
C between the Swiss Institute of Bioinformatics and the EMBL outstation -
C the European Bioinformatics Institute. There are no restrictions on its
C use by non-profit institutions as long as its content is in no way
C modified and this statement is not removed. Usage by and for commercial
C entities requires a license agreement (See http://www.isb-sib.ch/announcement/
C or send an email to license@isb-sib.ch).
C -----
R EMBL; M13686; AAA60211.1; -
R EMBL; K03475; AAA36520.1; -
R EMBL; M30838; AAA36510.1; -
R EMBL; M68519; AAA60319.1; -
R PIR; A25720; LNHUP6.

```

```

DR HSP; P22897; IEGG.
DR Genew; HGNC:10798; SFTPA1.
DR Genew; HGNC:10799; SFTPA2.
DR MIM; 178630; -.
DR MIM; 178642; -.
DR GO; GO:0005319; F:lipid transporter activity; TAS.
DR InterPro; IPR008160; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF01391; Collagen_2.
DR Pfam; PF00059; lectin_C; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR PROSITE; PS00411; C-TYPE LECTIN 2; 1.
KW Glycoprotein; Calcium; Surface Film; Gaseous exchange; Hydroxylation;
KW Signal; Lactin; Collagen; Repeat; Polymorphism.
FT SIGNAL 1 20
FT CHAIN 21 248
FT DOMAIN 28 100
FT DOMAIN 153 248
FT DISULFID 155 246
FT DISULFID 224 238
FT CARBOHYD 207 207
FT VARIANT 9 9
FT VARIANT 50 50
FT VARIANT 66 66
FT VARIANT 73 73
FT VARIANT 81 81
FT VARIANT 85 85
FT VARIANT 219 219
FT VARIANT 223 223
FT CONFLICT 19 19
FT CONFLICT 45 45
FT CONFLICT 54 54
FT CONFLICT 91 91
FT CONFLICT 100 100
FT CONFLICT 247 247
SQ SEQUENCE 248 AA; 26214 MW; 6A9F0C3488BF3633 CRC64;
Query Match 19.1%; Score 284; DB 1; Length 248;
Best Local Similarity 29.9%; Pred. No. 4.6e-17;
Matches 78; Conservative 42; Mismatches 119; Indels 22; Gaps 9;
QY 16 LVLFLLQSLGLDIDSRPTAEVCATHTISPGKDDGKDPCEGKHKVGMGPKGI 75
Db 6 LALNLTMAASGAACEVK---DVCVG---SPGIPGTGSHGLPGDRGDRGLKGDGPPGP 59
QY 76 KGEIDMG-DRGNIGKTGPIGKKGDKGKGLLGPGEKAGTVCDCGRYKFKVGLDIS 134
Db 60 MGPPGEMCPGNDGLPCAPGIPGEGEK---GPGGPGPLPAHLDE-----ELQAT 110
QY 135 IARLTKSMKFNKVNIA---GIRETEKPYIVQEKYRESLTHCRIRGMLAMPKDEAA 191
Db 111 LHDFRHQLQTRGALSLOGSIMTVGEKVFSSNGOSITFDAIQEACAGAGRIAVPRNPEE 170
QY 192 NTLIADYVAKSGFFRFVIGVNDLEREGQYMTDNTPLQYNNWNEGFSPPYGHEDCVEM 251
Db 171 NEALASFVKKNTY-AYVGLTEGSPGDFRISDGTVP-NYTNWYRGEPAG-RGKEQCVEM 227
QY 252 LSSGRWNTDEHLTMFVCEP 272
Db 228 YTDGQWNRNCLYSRLTICEF 248

```

RESULT 15

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

M protein - protein search, using sw model

un on: February 24, 2004, 02:10:36 ; Search time 28 Seconds
(without alignments)
951.609 Million cell updates/sec

file: US-09-600-932-2
effect score: 1484
sequence: 1 MNGFASLLRRNQFILLVLF.....NDTECHLTWYFVCFIKKK 277

coring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

searched: 283366 seqs, 96191526 residues
total number of hits satisfying chosen parameters: 283366

inimum DB seq length: 0
aximum DB seq length: 2000000000

ost-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

atabase : PIR 78.*
1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Match	Length	DB	ID	Description
1	1318	88.8	277	2	JC7903	collectin liver 1
2	352.5	23.8	369	2	S33603	surfactant protein
3	345	23.2	301	2	A53570	collectin-43 - bov
4	337	22.7	375	1	A45225	pulmonary surfacta
5	333	22.4	374	1	A42046	surfactant protein
6	328.5	22.1	371	1	JN0450	conglutinin precu
7	328.5	22.1	371	2	I45878	conglutinin - bovi
8	305.5	20.6	247	1	LNRRPS	pulmonary surfacta
9	290	19.5	238	1	LNRTMA	mannose-binding le
10	290	19.5	244	1	LNMSMC	mannose-binding le
11	289.5	19.5	248	1	LNHUMC	mannose-binding le
12	287	19.3	248	1	LNHUP1	pulmonary surfacta
13	285.5	19.2	248	1	LNHUPS	pulmonary surfacta
14	284.5	19.2	248	2	I51921	pulmonary surfacta
15	284	19.1	248	1	LNHUP6	pulmonary surfacta
16	280	18.9	248	1	LNDRPS	pulmonary surfacta
17	279	18.8	244	1	LNRTMC	mannose-binding le
18	277	18.7	248	1	LNRTPS	pulmonary surfacta
19	273	18.4	742	2	JC7595	scavenger receptor
20	270.5	18.2	239	1	LNKWSA	mannose-binding le
21	269.5	18.2	248	2	A48853	pulmonary surfacta
22	207	13.9	618	2	S32436	collagen alpha 2(I
23	205	13.8	645	2	D90782	probable tail fibe
24	205	13.8	645	2	H85642	probable tail fibe
25	203	13.7	688	2	A53330	collagen alpha 2(I
26	196	13.2	1775	2	A31893	collagen alpha 1(I
27	193	13.0	1549	2	I48103	type VII collagen
28	192.5	13.0	2944	2	A54849	collagen alpha 1(V
29	191.5	12.9	1366	1	CGHU25	collagen alpha 2(I

ALIGNMENTS

RESULT 1

JC7903
collectin liver 1 - mouse
C;Species: Mus musculus (house mouse)
C;Date: 03-Feb-2003 #sequence_revision 03-Feb-2003 #text_change 31-Mar-2003
C;Accession: JC7903
R;Kawai, T.; Suzuki, Y.; Eda, S.; Kase, T.; Ohtani, K.; Sakai, Y.; Keshi, H.; Fukuh, A.
Bioc. Biotechnol. Biochem. 66, 2134-2145, 2002
A;Title: Molecular cloning of mouse collectin liver 1.
A;Reference number: JC7903; PMID:22333927; PMID:12450124
A;Accession: JC7903
A;Molecule type: mRNA
A;Residues: 1-277 <KAW>
A;Cross-references: DDBJ:AB016429
A;Experimental source: liver
C;Comment: This protein is a highly conserved cytosolic protein and belongs to a vertebr
c development.
C;Genetics:
A;Gene: Cl11
A;Map position: 15

Query Match	Best Local Similarity	Score	DB	Length
Matches 244;	Conservative 12;	Mismatches 21;	Indels 0;	Gaps 0;
QY	1	MNGFASLLRRNQFILLVLFLLQISGLDIDSRPTARVCATHITISPGKGDGKGDPE	60	
Db	1	MNGFVLLRSNLSMLLLALLHFSQSLGLDVDSRAAEVCATHITISPGKGDGGERGTGE	60	
QY	61	EGKHGKVGMPGKIGKELGDMGRNIGKTGPIGKKGDKGKGLLGIPEKKGAGTVCD	120	
Db	61	EGKDKGVRGQPKVVKVKGELGDMGAGNIGKSGPIGKKGDKGKGLLGIPEKKGAGTVCD	120	
QY	121	CGRYKFKVQGLDISARLKTSMKFNKVNVIAGIRTEKFFYIVQEEKYRESLTHCRIRG	180	
Db	121	CGRYKFKVQGLDISVARLKTSMKFKNVIAGIRTEKFFYIVQEEKYRESLTHCRIRG	180	
QY	181	GMLAMPKDBAANTLIADYVAKSGFFRVPIGVNLERGQYMTDTPLQYNNWKEEPS	240	
Db	181	GMLAMPKDEVTNTLIADYVAKSGFFRVPIGVNLERGQYMTDTPLQYNNWKEEPS	240	
QY	241	DPYGHEDCEVMSGRWNTTECHLTMYFVCFEIKKK 277		
Db	241	DPYGHEDCEVMSGRWNTTECHLTMYFVCFEIKKK 277		

RESULT 2

S33603
surfactant protein D - bovine
C;Species: Bos primigenius taurus (cattle)
C;Date: 02-Dec-1993 #sequence_revision 01-Sep-1995 #text_change 17-Mar-1999
C;Accession: S33603

R;Lim, B.L.; Lu, J.; Reid, K.B.M.
Immunology 78, 159-165, 1993
A;Title: Structural similarity between bovine conglutinin and bovine lung surfactant protein
A;Reference number: S33603; MUID:93170856; PMID:8436402
A;Accession: S33603
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-369 <LIM>
C;Superfamily: pulmonary surfactant protein D; C-type lectin homology
F;248-367/Domain: C-type lectin homology <LCH>

Query Match 23.8%; Score 352.5; DB 2; Length 369;
Best Local Similarity 31.1%; Pred. No. 1e-21;
Matches 92; Conservative 36; Mismatches 109; Indels 59; Gaps 8;

QY 26 LGLDIDSRPTAEVCATHISPGPKGDDGKEDP-----GEGKHGKVGGM----- 70
Db 84 IGLKGDNGSAGE-----PGFKGDTGPPGPPGPPGAGREGSPGKQSGMGPPTGPKX 135
QY 71 -----GPKGIGKELGDMGD-----RGNIGKTGPIGKKGDK 100
Db 136 GDTGPKGVGARGIQSGPGAGLKGKRGAPDGPAGPRGAGPRGAGLPGQSGGARGPP 195
QY 101 GEKGLLIGPEKKGAGT--VDCGGRYKRVFVQGLDISIARLKTSMKFKVN--VIAGIRETE 156
Db 196 GLKGDRTGPGKAGSGSLAEVNALRQVGLLEGQLRQLQAFSQYKXAMLPNGRSVG 255
QY 157 EKFYIVYQEEKYRESLTHCRIRGGMLAMPKDEAANTLIADYVAKSGFFRVFIVGNDLER 216
Db 256 EKIFKTVGSEKTFQDAQIQCTGAGQLSPRSGAGNEALTO-LATAQKAAFLMSBTRK 314
QY 217 EGQYMTDNTPLQYNNWNEGPPSPYGHEDCVEMLSGRWNTDTECHLTMYFVCEP 272
Db 315 EGTFTYPTGEPLV-YSNWAPQEPNNDGSGENCVEIFPNKKNQKVCGEQRLVCEP 369

RESULT 3
A53570
collectin-43 - bovine
N;Alternate names: lectin CL-43
C;Species: Bos primigenius taurus (cattle)
C;Date: 12-Apr-1995 #sequence_revision 23-Feb-1996 #text_change 17-Mar-1999
A;Accession: A53570; A46689
R;Lim, B.L.; Willis, A.C.; Reid, K.B.M.; Lu, J.; Laursen, S.B.; Jensenius, J.C.; Holmskov
J. Biol. Chem. 269, 11820-11824, 1994
A;Title: Primary structure of bovine collectin-43 (CL-43). Comparison with conglutinin
A;Reference number: A53570; MUID:94216283; PMID:8163480
A;Accession: A53570
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-301 <LIM>
A;Cross-references: GB:X75912
R;Holmskov, J.; Teisener, B.; Willis, A.C.; Reid, K.B.; Jensenius, J.C.
J. Biol. Chem. 268, 10120-10125, 1993
A;Title: Purification and characterization of a bovine serum lectin (CL-43) with structure
A;Reference number: A46689; MUID:93252891; PMID:8486682
A;Accession: A46689
A;Molecule type: protein
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-27 <HOL>
A;Experimental source: serum
A;Note: sequence extracted from NCBI backbone (NCBIF:131234)
C;Superfamily: pulmonary surfactant protein D; C-type lectin homology
C;Keywords: lectin
F;177-299/Domain: C-type lectin homology <LCH>

Query Match 23.2%; Score 345; DB 2; Length 301;
Best Local Similarity 35.0%; Pred. No. 3.4e-21;
Matches 86; Conservative 34; Mismatches 99; Indels 28; Gaps 8;

QY 45 SPQPKGDGDEKGPGE---GKHGKVGKMGPKGIGKELGDMGRNIGTKTPIGKGDGK 101
Db 66 SMGPPPTGPKGEPGEGGVGAPGPGPGPAGLKGKRGAPGPGGAGTGPQGPSAMGPPG 125

QY 102 EKGLLIGPEKKGAG--TVDCGGRYKRVFVQGLDISIARLKTSMKFKVNVIAGIRE----- 154
Db 126 LKGRDGPGEKARGSETSVLEVTDLQRMRNLEGEVQL-----QNTVTVQYKAVLFP 178
QY 155 ---TEEFYIVYQEEKYRESLTHCRIRGGMLAMPKDEAANTLIADYV-AKSGFFRVET 209
Db 179 DGQAVGEKIFKTAGAVKSYSDAEQLCEEAKGQLASPRSSAENEAVTQLVRAKNK--HAYL 236
QY 210 GVNLERGQYMTDNTPLQYNNWNEGPPSP---PYGHEDCVEMLSGRWNTDTECHLTM 266
Db 237 SMNDISKEGKFTYPTGSL-DYSNWAPEPNNAKDEGPENCLEIYSDGNWNDIECREER 295
QY 267 YFVCEP 272
Db 296 LVICEP 301

RESULT 4
A45225
pulmonary surfactant protein D precursor - human
N;Alternate names: SP-D
C;Species: Homo sapiens (man)
C;Date: 16-Apr-1999 #sequence_revision 16-Apr-1999 #text_change 22-Jun-1999
A;Accession: A45225; S23434; S24555; S44420; S18382; A56776
R;Crouch, E.; Rust, K.; Veille, R.; Donis-Keller, H.; Grosso, L.
J. Biol. Chem. 268, 2976-2983, 1993
A;Title: Genomic organization of human surfactant protein D (SP-D). SP-D is encoded on
A;Reference number: A45225; MUID:93155122; PMID:8428971
A;Accession: A45225
A;Molecule type: DNA
A;Residues: 1-375 <CRO>
A;Cross-references: GB:L05483; GB:L05484; GB:L05485; NID:9292505; PIDN:AAB59450.1; PID:
A;Experimental source: placenta
A;Note: sequence extracted from NCBI backbone (NCBIF:124316)
R;Lu, J.; Willis, A.C.; Reid, K.B.M.
Biochem. J. 284, 795-802, 1992
A;Title: Purification, characterization and cDNA cloning of human lung surfactant prote:
A;Reference number: S23434; MUID:92322003; PMID:1339284
A;Accession: S23434
A;Molecule type: mRNA
A;Residues: 1-30, 'T', '32-121, 'P', '123-179, 'A', '181-375 <LUJ1>
A;Cross-references: EMBL:X65018; NID:934766; PIDN:CAA46152.1; PID:g34767
A;Experimental source: lung
A;Accession: S24555
A;Molecule type: protein
A;Residues: 214-234, 'X', '236, 'XX', '239-241 <LUJ2>
R;Hoppe, H.J.; Barlow, P.N.; Reid, K.B.M.
FEBS Lett. 344, 191-195, 1994
A;Title: A parallel three stranded alpha-helical bundle at the nucleation site of colla:
A;Reference number: S44420; MUID:94244769; PMID:8187892
A;Accession: S44420
A;Molecule type: mRNA
A;Residues: 202-257 <HOP>
R;Rust, K.; Grosso, L.; Zhang, V.; Chang, D.; Persson, A.; Longmore, W.; Cai, G.Z.; Cro:
Arch. Biochem. Biophys. 290, 116-126, 1991
A;Title: Human surfactant protein D: SP-D contains a C-type lectin carbohydrate recognit
A;Reference number: S18382; MUID:91378578; PMID:1898081
A;Accession: S18382
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 'F', '60-205, 'P', '207-374, 'HF' <RUS>
A;Cross-references: GB:L05485; NID:9292505
A;Note: corrections to this sequence are reported in reference A56776
R;Crouch, E.; Persson, A.; Chang, D.
Am. J. Pathol. 142, 241-248, 1993
A;Title: Accumulation of surfactant protein D in human pulmonary alveolar proteinosis.
A;Reference number: A56776; MUID:93142849; PMID:8424457
A;Accession: A56776
A;Status: preliminary
A;Molecule type: protein
A;Residues: 46-58, 'F', '60-62, 'E', '64-72, 223-227, 'X', '229-239, 'P', '241-245, 'X', '247-256, 'X', '2:
A;Cross-references: PIDN:AAB25037.1; PID:9263973; PIDN:AAB25038.1; PID:g363974
A;Experimental source: bronchoalveolar lavage

;Note: sequence extracted from NCBI backbone (NCBIP:123024, NCBIP:123023); sequence modified
;Comment: Pulmonary surfactant is a complex of phospholipids and proteins that lowers the surface tension of the alveolar type II cells.

;Genetics: GDB:SFTPD; SFTPD4; SP-D
;Cross-references: GDB:132674; OMIM:178635
;Map position: 10q22.2-10q23.1
;Superfamily: pulmonary surfactant protein D; C-type lectin homology
;Keywords: blocked amino end; calcium; glycoprotein; hydroxylysine; hydroxyproline; lung
;1-20/Domain: signal sequence #status predicted <SIG>
;21-375/Product: pulmonary surfactant protein D #status predicted <MAT>
;21-45/Domain: non-collagenous #status predicted <NC1>
;46-222/Domain: collagenous #status predicted <COL>
;223-375/Domain: non-collagenous #status predicted <NC2>
;254-373/Domain: C-type lectin homology <LCH>
;90/Binding site: carboxylate (Asn) (covalent) #status predicted
;281-373,351-365/disulfide bonds: #status predicted

Query Match 22.7%; Score 337; DB 1; Length 375;
Best Local Similarity 35.2%; Pred. No. 2e-20;
Matches 86; Conservative 28; Mismatches 110; Indels 20; Gaps 6;
/ 46 PGPKGDDCEKGPGEKGGKVGKMGPKGKIGELGDMCDRGNICKTGPIGK----- 96
c 135 PGPKGAGPKGEVGPAPGCGSAGARGLAGPKGERGVPGTGAAGSAGAMGPQGS 194
y 97 ---KGDGKGEKGLGIPGKGRAGT--VDCGGRYKRFVQQLDISIARLKTSMKFKYNY--I 149
b 195 PGARPPGLKDGKIPGDKGAKGSGLPDVAASRQVEALQGVQVHQAQSFYKVKELF 254
y 150 AGIRETEEFYVVOEKYRSLTHCIRGMLAMPKDEANLTIAD-VYAKSGFRVFI 209
b 255 PNGQSVGEKIFKTAGVFPFTFQAQLLCTQAQGLASPRSAENALQOLVYAKNE--AAF 312
y 209 IGVDLEREGQVMTDNTPLQYNNWNEGEPSDPVGHEDCVEMLSRGRWNTDECHLTMYFV 269
b 313 LMSDTSKTEGKTYPTGESLV-YSNWAPEFNNNGAENCVEIFTNGQWMDKACGEQRLVI 371
y 269 VCEF 272
b 372 VCEF 375
ESULT 5
42046
urfactant protein D - rat
;Species: Rattus norvegicus (Norway rat)
;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
;Accession: A42046
;Shimizu, H.; Fisher, J.H.; Papet, P.; Benson, B.; Lau, K.; Mason, R.J.; Voelker, D.R.
;Title: Primary structure of rat pulmonary surfactant protein D. cDNA and deduced amino acid sequence.
;Reference number: A42046; MUID:192112913; PMID:1370483
;Accession: A42046
;Status: preliminary
;Molecule type: mRNA
;Residues: 1-374 <SHI>
;Cross-references: GB:M81231; NID:9207035; PIDN:AAA42170.1; PID:9207036
;Experimental source: lung
;Note: sequence extracted from NCBI backbone (NCBIN:76027, NCBIP:76031)
;Superfamily: pulmonary surfactant protein D; C-type lectin homology
;253-372/Domain: C-type lectin homology <LCH>

Query Match 22.4%; Score 333; DB 1; Length 374;
Best Local Similarity 32.1%; Pred. No. 4.e-20;
Matches 78; Conservative 36; Mismatches 111; Indels 18; Gaps 5;
y 46 PGPKGDDGKGD---PGEGKKGKVGKMGPKGKIGELGDMGRGNICKTGPIGKKGKGE 102
b 134 PGPKGAGPKGEVGPAPGCGSAGARGLAGPKGERGVPGTGAAGSAGAMGPQGA 193
y 103 KGLLGIPIGKGRAGTVCDCG-----RYRFFVGLDISIARLKTSMKFKYNY--VI 149

Db 134 PGRGPPGLKCDRGAPGDRGKIGESGLPDSALRQOEALNGKLQRLAEAFSRYKKAALF 253
Qy 150 AGIRETEEFYVVOEKYRSLTHCIRGMLAMPKDEANLTIADYVYAKSGFRVFI 209
Db 254 PDGQSVGDKIPFRAANSEEPFEDAKEMCRQAGGLASPRSAENALQOLVYAKNE--AAF 312
Qy 210 IGVDLEREGQVMTDNTPLQYNNWNEGEPSDPVGHEDCVEMLSRGRWNTDECHLTMYFV 269
Db 313 LMSDTSKTEGKTYPTGESLV-YSNWAPEFNNNGAENCVEIFTNGQWMDKACGEQRLVI 371
Qy 270 CEF 272
Db 372 CEF 374

RESULT 6

UN0450
conglutinin precursor - bovine
N:Alternate names: C3b-binding protein
N:Contains: conglutinin-N
C:Species: Bos primigenius taurus (cattle)
C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 16-Jun-2000
A:Accession: UN0450; JC2396; S33235; A23740; S36879; S35044; I46010; A29416; S34054
R:Suzuki, Y.; Yin, Y.P.; Makino, M.; Kurimura, T.; Wakamiya, N.
Biochem. Biophys. Res. Commun. 191, 335-342, 1993
A:Title: Cloning and sequencing of a cDNA coding for bovine conglutinin.
A:Reference number: UN0450; MUID:93213261; PMID:8460993
A:Accession: UN0450
A:Molecule type: mRNA
A:Residues: 1-371 <SUZ>
A:Cross-references: DDBJ:D14085; NID:9285643; PIDN:BAAO3170.1; PID:9285644
A:Experimental source: liver
R:Kawasaki, N.; Itoh, N.; Kawasaki, T.
Biochem. Biophys. Res. Commun. 198, 597-604, 1994
A:Title: Gene organization and 5'-flanking region sequence of conglutinin: A C-type mammalian protein.
A:Reference number: JC2396; MUID:94128104; PMID:8297370
A:Accession: JC2396
A:Molecule type: mRNA
A:Residues: 1-371 <KAZ>
A:Note: The authors translated the codon GAT for residues 250 and 270 as Glu
R:Lu, J.; Laursen, S.B.; Thiel, S.; Jensenius, J.C.; Reid, K.B.M.
Biochem. J. 292, 157-162, 1993
A:Title: The cDNA cloning of conglutinin and identification of liver as a primary site of synthesis.
A:Reference number: S33235; MUID:93277452; PMID:7684896
A:Accession: S33235
A:Molecule type: mRNA
A:Residues: 1-172, 'H', 174-217, 'A', 219-271, 'V', 273-371 <LUJ>
A:Cross-references: EMBL:X71774; NID:9395267; PIDN:CAA50665.1; PID:9395268
A:Experimental source: liver
R:Lee, Y.M.; Leiby, K.R.; Allar, J.; Paris, K.; Lerch, B.; Okarma, T.B.
J. Biol. Chem. 266, 2715-2723, 1991
A:Title: Primary structure of bovine conglutinin, a member of the C-type animal lectin family.
A:Reference number: A23740; MUID:91131556; PMID:1993651
A:Accession: A23740
A:Molecule type: protein
A:Residues: 21-209, 'S', 211-371 <LEB>
R:Kawasaki, N.; Yokota, Y.; Kawasaki, T.
Arch. Biochem. Biophys. 305, 533-540, 1993
A:Title: Differentiation of conglutination activity and sugar-binding activity of conglutinin.
A:Reference number: S36879; MUID:93384312; PMID:8373191
A:Accession: S36879
A:Molecule type: protein
A:Residues: 21-54; 75-86, 'X', 88-89, 'X', 91, 'X', 93-94; 208-209, 'X', 211-227 <KAW>
A:Experimental source: serum
R:Lu, J.; Wiedemann, H.; Holmskov, U.; Thiel, S.; Timpl, R.; Reid, K.B.M.
Eur. J. Biochem. 215, 793-799, 1993
A:Title: Structural similarity between lung surfactant protein D and conglutinin. Two distinct regions of conglutinin are involved in the binding of surfactant protein D.
A:Reference number: S35044; MUID:93358905; PMID:8354286
A:Accession: S35044
A:Molecule type: protein
A:Residues: 75-86, 'X', 88-89, 'X', 91, 'I' <LUA>
A:Experimental source: lung
R:Young, N.M.; Leon, M.A.

A;Residues: 1-371 <IO>
A;Cross-references: GB:J118871; NID:g495012; PIDN:AAA20126.1; PID:g495013
C;Superfamily: pulmonary surfactant protein B; C-type lectin homology
F;248-369/Domain: C-type lectin homology <LCH>
Query Match 22.1%; Score 328.5; DB 2; Length 371;
Best Local Similarity 29.5%; Pred. No. 1e-19;
Matches 85; Conservative 35; Mismatches 95; Indels 73; Gaps 10;
QY 46 POPKDDGDKGDP-----GEGKGKGVGRMPKGIKGLGDMGRGNLCK-----TCP 93
DB 96 PGFKGDTGPRGPGMGPGAGREGPGKQSGMGPPGTPGKGTGPKGGVGAFGIQFGPGP 155
QY 94 ICKKDKGKKGILLGIPGE-----KKGAG- 116
DB 156 SGLKGEKAGPETGAPGAGVTGSPGCAIGPQPGSGARGPPGLKGDGRDGPGETGAKGESL 215
QY 117 -----TYDCGRYKFGVQLDISIARLKTSMKTVKQVIAGIRETEERFYIVQEE 166
DB 216 AEVNALKQRVTILD-CHLRRFN-----AFSQYKAVLFPDQAVG-----EKIFTAGAV 265
QY 167 KNYRESLTHCRIRGGMLAMPKDEAAANTIADYVAKSGFFRVFIGVNDLEREQYMTDNT 226
DB 266 KYSYDAEQLCREAKQQLASPRSSAENAVTQMV-RAQEKNAVLSMNDISTEGRTYPTGGE 324
QY 227 PLQNTSYNNNEGP--SDPYGHEDCVEMLSGSGWNTDECHLTMYFYCFEF 272
DB 325 ILV-YSNWADGPFNNSDGQPCNCEIIFPDGKWNDFVCSKQLLVICEF 371
RESULT 8
LNRBPS
Pulmonary surfactant protein A precursor - rabbit
N;Alternate names: pulmonary surfactant 32k apoprotein; pulmonary surfactant-associated
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999
C;Accession: A29931
J;Bogdaram, V.; Qing, X.; Mendelson, C.R.
R. J. Biol. Chem. 263, 29339-2947, 1988
A;Title: The major apoprotein of rabbit pulmonary surfactant. Elucidation of primary se
A;Reference number: A29931; MUID:88139348; PMID:2830270
A;Accession: A29931
A;Molecule type: mRNA
A;Residues: 1-247 <BOG>
A;Cross-references: GB:J03542; NID:g165705; PIDN:AAA31465.1; PID:g165706
A;Note: 12-Pro was also found
A;Note: two species of mRNA, which appear to be transcribed from a single gene, could p
A;Note: the amino end of the mature protein is blocked
C;Comment: Pulmonary surfactant is a complex of phospholipids and proteins that lowers t
C;Comment: This protein is a sialoglycoprotein synthesized by alveolar type II cells. It
pendent on the presence of calcium ions
C;Superfamily: mannose-binding lectin; C-type lectin homology
C;Keywords: acetylated amino end; alveolar proteinosis; calcium; gaseous exchange; glyco
F;1-15/Domain: signal sequence #status predicted <SIG>
F;16-247/Product: pulmonary surfactant protein A #status predicted <MAT>
F;27-99/Region: collagen-like
F;126-245/Domain: C-type lectin homology <LCH>
F;16/Modified site: acetylated amino end (Ser) (in mature form) #status predicted
F;206/Binding site: carbohydrate (Asn) (covalent) #status predicted
Query Match 20.6%; Score 305.5; DB 1; Length 247;
Best Local Similarity 31.2%; Pred. No. 5.2e-18;
Matches 85; Conservative 30; Mismatches 104; Indels 53; Gaps 9;
QY 25 SLGLDIDSRTAEVCATHRI---SPGKGDGDEKDPGEGKHGKGVGRMPKGIKGLGSD 81
DB 5 SLALTILISASDTCDDTKVCIGSGPIGTPGSHGLFGRDGRGVKGDPPGPMGPPGG 64
QY 82 M-----GDRGNIGHTGPIGKKDKGKGLIGIPEKXKAGTVCDCGRYRFEVGOLD----- 132
DB 65 MPGLPGRDGLIGAPGVFGRGDKE-----PGERGPPG-----LPAYLDELQA 108
QY 133 -----ISIARLKTSMKFVNVIAGIRETEERFYIVQEEKNYRESLTHCRIG 180


```

Db      56 GBFGQ-----GLRGLQPPGKVGTPGPGNGLGKAVGPKGDRGDRA----- 97
QY      119 CDGGRYKFP-VQLDLSIARLTKSMKFKVN-VIAGISETEKEFYIVQBEKNYRESL-TH 175
Db      98 -----EFDISEIETAAURSELRARUNWLSLSEKVGKKFYFSSVKMSLDRVKAL 150
QY      176 CIRGGLAMPKDEAANTLIADYVAKSGFFRFVIGVNDLREGGYMTDNTPIQ-NYSNW 234
Db      151 CSEFGQSVATPRNAENGSAI-QKVAKD---IAYLGITDVRVEGS--FEDLTGNRVRYTNW 204
QY      235 NGEPSDPVGHEDCVEMLSGGRWNTDECHLTWYFVCEP 272
Db      205 NDGEFNTGDGEDCVVILGNGKRWNDVPCDSFLAICEF 242

RESULT 11
LNHUMC
mannose-binding lectin precursor [validated] - human
N:Alternate names: mannan-binding protein
C:Species: Homo sapiens (man)
C:Date: 31-Mar-1989 #sequence revision 30-Sep-1991 #text change 08-Dec-2000
C:Accession: J10115; S05641; A34978; J10027; JX0319; PC2188; A32266
R:Sastri, K.; Herman, G.A.; Day, L.; Deignan, E.; Bruns, G.; Morton, C.C.; Ezekowitz, R.
J. Exp. Med. 170, 1175-1189, 1989
A:Title: The human mannose-binding protein gene. Exon structure reveals its evolutionary
A:Reference number: J10115; MUID:90010778; PMID:2477486
A:Accession: J10115
A:Molecule type: DNA
A:Residues: 1-248 <SAS>
A:CROSS-references: EMBL:X15422; NID:G34486; PIDN:CAA33462.1; PID:G34487
R:Taylor, M.B.; Brickell, P.M.; Craig, R.K.; Summerfield, J.A.
Biochem. J. 262, 763-771, 1989
A:Title: Structure and evolutionary origin of the gene encoding a human serum mannose-bi
A:Reference number: S05641; MUID:90073571; PMID:2590164
A:Accession: S05641
A:Molecule type: DNA
A:Residues: 1-248 <TAY>
A:CROSS-references: EMBL:X15954; NID:G34480; PIDN:CAA34079.1; PID:g12:2951
A:Accession: A34978
A:Molecule type: protein
A:Residues: 'X', 22-24, 'X', 26, 'X', 28-31, 'X', 33-34, 'X', 36, 'XXXX', 41-50 <TAY2>
R:Ezekowitz, R.A.B.; Day, L.E.; Herman, G.A.
J. Exp. Med. 167, 1034-1046, 1988
A:Title: A human mannose-binding protein is an acute-phase reactant that shares sequence
A:Reference number: J10027; MUID:86171281; PMID:2450948
A:Accession: J10027
A:Molecule type: mRNA
A:Residues: 1-2, 'C', 4, 'IT', 8, 'S', 10-57, 'R', 59-60, 'GT', 63-106, 'PCLRLK', 113, 'SSANRNGTYQ', 1
R:Kurata, H.; Sannoh, T.; Kozutsumi, Y.; Yokota, Y.; Kawasaki, I.
J. Biochem. 115, 1148-1154, 1994
A:Title: Structure and function of mannan-binding proteins isolated from human liver and
A:Reference number: JX0319; MUID:95073978; PMID:7982896
A:Accession: JX0319
A:Molecule type: protein
A:Residues: 1-248 <KURI>
A:Accession: PC2188
A:Molecule type: mRNA
A:Residues: 1-20 <KUR2>
A:Experimental source: liver and serum
C:Comment: Mannose-binding lectins are opsonins that are important in host defense again
C:Comment: This protein is a Ca2+-requiring animal lectin specific for mannose and N-acet
C:Genetics:
A:Gene: GDB:MBL
A:CROSS-references: GDB:120167; OMIM:154545
A:Map position: 10q11.2-10q11.2
A:Introns: 63/1; 102/1; 125/1
C:Superfamily: mannose-binding lectin; C-type lectin homology
C:Keywords: acute phase; calcium binding; endoplasmic reticulum; Golgi apparatus; hydrox
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-248/Product: mannose-binding lectin #status experimental <MAT>
F:42-99/Region: collagen-like
F:128-244/Domain: C-type lectin homology <LCH>
F:47, 73, 79, 82, 88/Modified site: 4-hydroxyproline (Pro) (partial) #status experimental

```

```

Query Match      19.5%; Score 289.5; DB 1; Length 248;
Best Local Similarity 31.1%; Pred. No. 1.1e-16;
Matches 75; Conservative 37; Mismatches 100; Indels 29; Gaps 7;

QY      34 PTASVCATHIS--PGPKGDDGEGKPGGEGKGVKVRMPKGIKIGELMDGDRNGIKT 91
Db      33 PAVIACSPGINGPPGKDGDRGTGKBEKPGQ-----GLRGLQPPGKGLGPPGPGPS 85
QY      92 GPICKKDGKGGLLGIPGEGKAGTVCDCGRYKRVGVGLDISIARLTKSMKFKVKNVIAG 151
Db      86 GSPGPKGQKGDG-----KSPDGSSLSAASERK---ALOTEMARIKWLTFSLG---- 131
QY      152 IRETERFYIVQBEKNYRESLTHCRIRGGLMLAMPDEAANTLIADYVAKSGFFRFVIGV 211
Db      132 -KQVGNKFFLTNGEIMTFEKVKALCVKQFQSVATPRNAENGAIQNLKE-----EAF LGI 186
QY      212 NDLEREGGYMTDNTPIQNYSNNEGEPSPDYGHEDCVEMLSGGRWNTDECHLTWYFVCE 271
Db      197 TDETEGQFVLTGNRL-TYTNWNEGEPNAGSDEDCVLLKNGQWNDVPCSTSHLAVCE 245
QY      272 F 272
Db      246 F 246

RESULT 12
LNHUPI
pulmonary surfactant protein A precursor (clone 1A) - human
N:Alternate names: pulmonary surfactant 32K apoprotein; pulmonary surfactant-associated
C:Species: Homo sapiens (man)
C:Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999
C:Accession: B25720
R:Floros, J.; Steinbrink, R.; Jacobs, K.; Phelps, D.; Kriz, R.; Recny, M.; Sultzman, L.
J. Biol. Chem. 261, 9029-9033, 1986
A:Title: Isolation and characterization of cDNA clones for the 35-kDa pulmonary surfact
A:Reference number: A25720; MUID:86250832; PMID:3755136
A:Accession: B25720
A:Molecule type: mRNA
A:Residues: 1-248 <FLO>
A:CROSS-references: GB:K03475
A:Note: part of the sequence was confirmed by protein sequencing
A:Note: the amino end of the mature protein, which was not identified, is partially ace
A:Note: Clones corresponding to two different proteins were sequenced. Cotranslational
C:Genetics:
A:Gene: GDB:SFTPA1; SFTPL; SP-A; SP-A1
A:CROSS-references: GDB:119593; OMIM:178630
A:Map position: 10q22-10q23
C:Superfamily: mannose-binding lectin; C-type lectin homology
C:Keywords: acetylated amino end; alveolar proteinosis; calcium; gaseous exchange; glyco
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-248/Product: pulmonary surfactant protein A #status predicted <MAT>
F:127-246/Domain: C-type lectin homology <LCH>
F:21/Modified site: acetylated amino end (Glu) (in mature form) #status predicted
F:30, 33, 36, 42, 54, 57, 63, 76, 79, 82, 91, 97/Modified site: 4-hydroxyproline (Pro) #status pre
F:207/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match      19.3%; Score 287; DB 1; Length 248;
Best Local Similarity 28.2%; Pred. No. 1.8e-16;
Matches 75; Conservative 44; Mismatches 117; Indels 30; Gaps 9;

QY      14 ILLVLFILQISGLD:DSRPTAEVCATHTISPQKDDGEGKGPCEGKGVKVRMGPK 73
Db      6 LALTLLIIMASGAACEV-----KDVCGV---SPGIFGTGSHGLPDRDGLKGDGPP 57
QY      74 GIKGELGDM-----GDRGNIGKTGPIGKKGDKGKGLGIPGEGKAGTVCDCGRYKRVFG 129
Db      58 GPMGPPGETPCPGNNGLPGAPGVGEGEKGK-----PGERGPPGLPAHLDE----- 105
QY      130 QLDISIARLTKSMKFKVKNVIA---GIRETEKFEYIVQBEKNYRESLTHCRIRGGLAMP 186
Db      106 ELQATLHDFRHLQITRGALSQCSINTVGEKVFSSNGOSITFDATQACARAGRIAVP 165

```

Y 187 KDEAANTLIADYVAKSGFRFVGVNDLREGQYMTDNTPLQYNNWNEGSDPYGHE 246
b 166 RUPENEALASFKKNTY-AVGLTEGSPDFRYSOGTGV-NYTNWYRGEPAAG-RGKE 222
Y 247 DCVEMLSGRWMDTECHLTMYFVCEP 272
b 223 QCVEMYTDQWDRNCLYSRLTICF 248
RESULT 13
LNUP6
pulmonary surfactant protein A precursor (genomic clone) - human
N/Alternate names: alveolar proteinosis protein; pulmonary surfactant 32K apoprotein; pu
C/Species: Homo sapiens (man)
C/Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999
C/Accession: A24622; A43628
R/White, R.T.; Damm, D.; Miller, J.; Spratt, K.; Schilling, J.; Hawgood, S.; Benson, B.
Title: Isolation and characterization of the human pulmonary surfactant apoprotein ge
Reference number: A24622; MUID:86014366; PMID:2995821
Molecule type: DNA
Residues: 1-248 <WHI>
Cross-references: GB:M30838; NID:gl90564; PIDN:AAA36510.1; PID:gl90565
Note: The sequence in GenBank entry HUMPSAP, release 109.0, (PID:gl90565) has the cod
Note: four nucleotide differences, producing amino acid differences at positions 45, 5
Haagsman, H.P.; White, R.T.; Schilling, J.; Lau, K.; Benson, B.J.; Golden, J.; Hawgood
m. J. Physiol. 257, L421-L429, 1989
Title: Studies of the structure of lung surfactant protein SP-A.
Reference number: A43628; MUID:90119861; PMID:2610270
Accession: A43628
Molecule type: protein
Residues: 143-150/220-240/243-248 <HAA>
Comment: Pulmonary surfactant is a complex of phospholipids and proteins that lowers t
Comment: This protein is a sialoglycoprotein synthesized by alveolar type II cells. It
end on the presence of calcium ions.
Genetics:
Gene: GDB:SFTPA1; SFTP1; SP-A; SP-A1
Cross-references: GDB:119593; OMIM:178630
Map position: 10q22-10q23
Introns: 58/1; 98/1; 124/1
Superfamily: mannose-binding lectin; C-type lectin homology
Keywords: alveolar proteinosis; calcium; gaseous exchange; glycoprotein; hydroxylsine
1-20/Domain: signal sequence #status predicted <SIG>
21-248/Product: pulmonary surfactant protein A #status predicted <MAT>
28-100/Domain: collagenous #status predicted <COL>
127-246/Domain: C-type lectin homology <LCH>
26/Disulfide bonds: interchain #status experimental
30,33,36,42,57,63,76,79,82,91,97/Modified site: 4-hydroxyproline (Pro) #status predict
51,88/Modified site: 5-hydroxylsine (Lys) #status predicted
155-246,224-238/Disulfide bonds: #status experimental
207/Binding site: carbohydrate (Asn) (covalent) #status predicted
Query Match 19.2%; Score 285.5; DB 1; Length 248;
Best Local Similarity 30.6%; Pred. No. 2.4e-16;
Matches 74; Conservative 37; Mismatches 112; Indels 19; Gaps 8;
Y 38 VCATHI---SSGPKDDKDEKDPGEKGVKSGMGPKGKLGELGDMG-DRGNIGTKGP 93
b 19 VCEVKDVCVSGPQIPPTPGSHGLGRHGRDGLGDLGPPGMPGPGPCPPGNDGLPGA 78
Y 94 IGKKGDKGKGLGIPGEGKAGTCDCCORVRFVQGLDISIARLKTSMKFKVNVIA--- 150
b 79 PGIPGCGEK---GEPGERGPGPLPAHLDE-----ELQATLHDFRHQILQTRGALSQ 129
Y 151 GIRETEKEFYIVQEKYNSLTHCRIRGGLAMPKDEAANTLIADYVAKSGFRFVIG 210
b 130 SIMTVGKVFSSNGOSITPDATQECARAGRIAVPRNPEENAIASFVKKNTY-AVVG 188
Y 211 VNDLREGQYMTDNTPLQYNNWNEGSDPYGHEDCVEMLSGRWMDTECHLTMYFVC 270
b 189 LTBGSPGDFRYSOGTGV-NYTNWYRGEPAAG-RGKEQCVEMYTDQWDRNCLYSRLTIC 246

QY 271 EF 272
DB 247 EF 248

RESULT 14

IS1921

pulmonary surfactant-associated protein A1 - human

N/Alternate names: SP-A1

C/Species: Homo sapiens (man)

C/Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 20-Aug-1999

C/Accession: IS1921

R/Katyal, S.L.; Singh, G.; Locker, J.

Am. J. Respir. Cell Mol. Biol. 6, 446-452, 1992

A/Title: Characterization of a second human pulmonary surfactant-associated protein SP-A

A/Reference number: IS1921; MUID:92198680; PMID:1372511

A/Accession: IS1921

A/Status: preliminary; translated from GB/EMBL/DBJ

A/Molecule type: DNA

A/Residues: 1-248 <RES>

A/Cross-references: GB:M68519; NID:g338048; PIDN:AAA60319.1; PID:g338049

C/Genetics:

A/Gene: GDB:SFTPA1; SFTP1; SP-A; SP-A1

A/Cross-references: GDB:119593; OMIM:178630

A/Map position: 10q22-10q23

A/Introns: 58/1; 98/1; 124/1

C/Superfamily: mannose-binding lectin; C-type lectin homology

F/127-246/Domain: C-type lectin homology <LCH>

Query Match 19.2%; Score 284.5; DB 2; Length 248;

Best Local Similarity 31.2%; Pred. No. 2.9e-16;

Matches 70; Conservative 37; Mismatches 110; Indels 7; Gaps 5;

QY 53 GBKGDGEGKHGKVGMRGPKIGKGLGDMGDRGNIGKTG-PGKKGDKGKGLGIPGE 111

DB 28 GSPGIPGPGSHGLPGRDGRGVKGPQPGPGPGTETPCPPGNGLPGAPGVPGERGE 87

QY 112 KKAGTVCDCGRYKRFVQGLDISIARLKTSMKFKVNVIA---GIRETEKEFYIVQEK 168

DB 88 KGEAGERGPGPLPAHLDEELQATLHDFRHQILQTRGALSQGSIMTVGKVFSSNGOSIT 147

QY 169 YRESLTHCRIRGGLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREGQYMTDNTPL 228

DB 148 FDAOECARAGRIAVPRNPEENAIASFVKKNTY-AVGLTEGSPGDFRYSOGTGP 206

QY 229 QNYSNNWNEGSDPYGHEDCVEMLSGRWMDTECHLTMYFVCEP 272

DB 207 -NYTNWYRGEPAAG-RGKEQCVEMYTDQWDRNCLYSRLTICDF 248

RESULT 15

LNUP6

pulmonary surfactant protein A precursor (clone 6A) - human

N/Alternate names: pulmonary surfactant 32K apoprotein; pulmonary surfactant-associated

C/Species: Homo sapiens (man)

C/Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999

C/Accession: A25720

R/Floros, J.; Steinbrink, R.; Jacobs, K.; Phelps, D.; Kriz, R.; Recny, M.; Sultzman, L.;

J. Biol. Chem. 261, 9029-9033, 1986

A/Title: Isolation and characterization of cDNA clones for the 35-kDa pulmonary surfact

A/Reference number: A25720; MUID:86250832; PMID:3755136

A/Accession: A25720

A/Molecule type: mRNA

A/Residues: 1-248 <FLO>

A/Cross-references: GB:M13686; NID:gl90669; PIDN:AAA60211.1; PID:gl90670

A/Note: part of the sequence was confirmed by protein sequencing

A/Note: the amino end of the mature protein, which was not identified, is partially acet

A/Note: clones corresponding to two different proteins were sequenced. Cotranslational m

C/Genetics:

A/Gene: GDB:SFTPA1; SFTP1; SP-A; SP-A1

A/Cross-references: GDB:119593; OMIM:178630

A/Map position: 10q22-10q23

C/Superfamily: mannose-binding lectin; C-type lectin homology

C:Keywords: acetylated amino end; alveolar proteinosis; calcium; gaseous exchange; glycd
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-248/Product: pulmonary surfactant protein A #status predicted <MAR>
F:127-246/Domain: C-type lectin homolog <LCH>
F:21/Modified site: acetylated amino end (Glu) (in mature form) #status predicted
F:30,33,36,42,54,57,63,76,79,82,91,97/Modified site: 4-hydroxyproline (Pro) #status pred
F:207/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 19.1%; Score 284; DB 1; Length 248;
Best Local Similarity 29.9%; Pred. No. 3.2e-16;
Matches 78; Conservative 42; Mismatches 119; Indels 22; Gaps 9;

QY 16 LVFLLIQISLGLDIDSRPTAEVCATHITSPGPKGDDGEGKGPGEKGKGVGRMGPKGI 75
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 6 LALNLLMAASGAACEVK---DVCVG---SPGIPGSHGLPGDRDGLKGDGPGPGP 59
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
QY 76 KGEIGDMG--DRGNIGKTPIGKKGDKGKGLLIPGKKGAGTVCDCGRYRKFGQLDIS 134
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 60 MGPPGEMPCPPGNDGLGAPGIPGCGEK--GEPGERGPPGLPAHLDE-----ELQAT 110
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
QY 135 IARLKTSMKFVNQVIA--GIRETEEKFYIVQBEKNYRESLTHCRIRGGMLAMPKDEAA 191
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 111 LHDFRHQILQTRGALSLOGSINTVCEKVFSSNGQSITFDALQECACAGGRIAVPRNPEE 170
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
QY 192 NTLIADYVAKSGFFRVFIGVNDLREGEQYMTDNTPLQNYSNWNEGEPSPDPYGHEDCEM 251
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 171 NEAIASEFVKKYNNTY-AYVGLTEGSPSGDFRYSDDGTFV-NYTNWYRGEFAG-RGKEQCQVEM 227
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
QY 252 LSSGRWNTDECHLTWYVCEP 272
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :
Db 228 YTDGQWDRNCLYSRLTICEP 248
| | | | | : : : : : | | | | | : : : : : | | | | | : : : : :

Search completed: February 24, 2004, 02:25:01
Job time : 29 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

M protein - protein search, using sw model

un on: February 24, 2004, 02:22:42 : Search time 23 Seconds
(without alignments)
521.756 Million cell updates/sec

file: US-09-600-932-2
erfect score: 1484
equence: 1 MNGFASLLRRNQFILLVFL.....NDTECHLTMYFVCFIKKK 277

coring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

searched: 389414 seqs, 51625971 residues

total number of hits satisfying chosen parameters: 389414

inimum DB seq length: 0
aximum DB seq length: 2000000000

ost-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

atabase : Issued Patents AA.*
1: /cgn2_6/prodata/2/1aa/5A COMB.pap.*
2: /cgn2_6/prodata/2/1aa/5B COMB.pap.*
3: /cgn2_6/prodata/2/1aa/6A COMB.pap.*
4: /cgn2_6/prodata/2/1aa/6B COMB.pap.*
5: /cgn2_6/prodata/2/1aa/PCTUS COMB.pap.*
6: /cgn2_6/prodata/2/1aa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Query Match	Length	ID	Description
1	328.5	22.1	351	3	US-09-011-735-1
2	328.5	22.1	351	4	US-09-029-156-1
3	289.5	19.5	248	4	US-09-198-603C-2
4	205	13.8	519	4	US-09-453-702B-265
5	202.5	13.6	128	4	US-09-535-521-8
6	202.5	13.6	139	4	US-09-535-521-11
7	202.5	13.6	141	4	US-09-535-521-14
8	202.5	13.6	187	4	US-09-535-521-17
9	202.5	13.6	208	4	US-09-535-521-20
10	202.5	13.6	292	4	US-09-535-521-2
11	202.5	13.6	292	4	US-09-535-521-5
12	201	13.5	123	4	US-09-535-521-25
13	191.5	12.9	1024	3	US-08-931-820-2
14	191.5	12.9	1366	3	US-08-963-825-19
15	191.5	12.9	1366	4	US-09-500-811-19
16	191.5	12.9	1366	4	US-09-570-573-19
17	191.5	12.9	1366	4	US-09-548-608-19
18	191.5	12.9	1366	4	US-09-585-887-10
19	191.5	12.9	1366	4	US-09-289-578-10
20	187.5	12.6	489	2	US-08-794-795-7
21	187.5	12.6	489	3	US-09-249-200-7
22	187.5	12.6	492	3	US-08-468-996-11
23	187.5	12.6	518	1	US-08-392-3673-2
24	187.5	12.6	518	3	US-08-893-467A-2
25	187	12.6	161	3	US-09-011-735-6
26	184.5	12.4	399	4	US-09-134-000C-6019
27	184.5	12.4	404	4	US-09-517-603-2

28	181.5	12.2	128	4	US-09-227-357-190	Sequence 130, App
29	180	12.1	107	6	5514562-17	Patent No. 5514582
30	180	12.1	557	3	US-09-320-095-10	Sequence 10, Appl
31	180	12.1	557	3	US-09-523-487-10	Sequence 10, Appl
32	179	12.1	495	2	US-08-794-795-2	Sequence 2, Appl
33	179	12.1	495	3	US-09-249-200-2	Sequence 2, Appl
34	179	12.1	520	2	US-08-794-795-6	Sequence 6, Appl
35	179	12.1	520	3	US-09-249-200-6	Sequence 6, Appl
36	178	12.0	285	4	US-09-312-283C-182	Sequence 382, App
37	177.5	12.0	1017	4	US-08-468-996-10	Sequence 10, Appl
38	177.5	12.0	1060	3	US-08-931-820-3	Sequence 3, Appl
39	177.5	12.0	1418	3	US-08-963-825-20	Sequence 20, Appl
40	177.5	12.0	1418	3	US-09-010-999-1	Sequence 1, Appl
41	177.5	12.0	1418	4	US-09-500-811-20	Sequence 20, Appl
42	177.5	12.0	1418	4	US-09-570-573-20	Sequence 20, Appl
43	177.5	12.0	1418	4	US-08-548-608-20	Sequence 20, Appl
44	177	11.9	294	3	US-09-188-930-294	Sequence 294, App
45	177	11.9	294	4	US-09-312-283C-294	Sequence 294, App

ALIGNMENTS

RESULT 1
US-09-011-735-1
; Sequence 1, Application US/09011735B
; Patent No. 6110708
; GENERAL INFORMATION:
; APPLICANT: Wakamiva, No. 6110708utaka
; TITLE OF INVENTION: Recombinant Conglutinin and Producing Method Thereof
; FILE REFERENCE: 19036/34548
; CURRENT APPLICATION NUMBER: US/09/011.735B
; CURRENT FILING DATE: 1998-05-22
; EARLIER APPLICATION NUMBER: JP 7-209698
; EARLIER FILING DATE: 1995-08-17
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Bovine
US-09-011-735-1

Query Match	22.1%;	Score 328.5;	DB 3;	Length 351;
Best Local Similarity	29.2%;	Pred. No. 6.9e-25;		
Matches	84;	Conservative	33;	Mismatches 98;
			Indels	73;
			Gaps	9;
QY	46	PGPKGDGEGKDP	-----GSEGHKGVGRMPKGIKGLDMDGRNICK	-----TGP 93
Db	76	PGPKGDTGPRGPGMPGPGAGREGPSGQSGSGPPTGPKGTGPKGVGAPGQGGPPG	135	
QY	94	IGKKGDKGKGLLGLPGEKAG	-----	116
Db	136	SLGKGEKAPGETGAPGAGVTGPGSAGPGPGSGARPPGLKGDRODPOGTGASGSL	195	
QY	117	-----TVDCGRYKRVGQDLSIARLKTSMKFNKXNVIAGIRETEKFFYIVQEE	166	
Db	196	AEVNALKQEVILD-GHLRRFQN	-----AFSQKXAVLPDQAVG	245
QY	167	KNYRESLTHCIRGMLAMPKDEAANTLIADYVAKSFFRVFIGNVDLREGQVMTDNT	226	
Db	246	KSYDAEOLCREAKQGLASPRSSAENAVTQW-RAQEKXAYLSMNDISTEGRTYPTGE	304	
QY	227	PLQNYNNNEGEP--SDPYGHEDCVMLSSGRWNTDCHLTMYFVCFE	272	
Db	305	ILV-YSNWADSEPNNSDEGQPCNVCVEIFPDGKNWNVFCSKOLLVICEP	351	

RESULT 2
US-09-029-156-1
; Sequence 1, Application US/09029156
; Patent No. 6365342
; GENERAL INFORMATION:

APPLICANT: WAKAMIYA, No. 6365342utaka
TITLE OF INVENTION: RECOMBINANT CONGLUTININ AND PRODUCING
TITLE OF INVENTION: METHOD THEREOF
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive/6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/029,156
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: PCT/JP96/00173
FILING DATE:
APPLICATION NUMBER: PCT/JP95/02035
FILING DATE: 02-OCT-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JPA - 209698
FILING DATE: 17-AUG-1995
ATTORNEY/AGENT INFORMATION:
NAME: Gass, David A.
REGISTRATION NUMBER: 38,153
REFERENCE/DOCKET NUMBER: 19036/34546
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 351 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-029-156-1

Query Match 22.1%; Score 328.5; DB 4; Length 351;
Best Local Similarity 29.2%; Pred. No. 6.9e-25;
Matches 84; Conservative 33; Mismatches 98; Indels 73; Gaps 9;
QY 46 PGPKGDDGKGDG-----GEGKHGKVGKMGPKGKIGELGDMGDRGNIGK-----TGP 93
DB 76 PGPKGDTGPRGPGMGPGAGREGSGKQSGMGPPGTPGPKGTGPKGGVGPAGIQGFPGP 135
QY 94 IGKKGDKGKGLGIPGKKGAG-----116
DB 136 SGLKGKAGAPGTGAPGAGVTGPGSAGTGPQPSGARGPPLKGLGDRDPGTGASGSL 195
QY 117 -----TVCDGGRYKRVGQLDISIAELKTSKMFVKNVIAIGIRETEKPYIVQEE 166
DB 196 AEVNAKQKVILD-GHLRRQN-----AFSQYKAVLPDQAVG-----EKIFKTAGAV 245
QY 167 KNYRESLTHCIRGNGLAMPDEAANTLIADYVAKSGFFRVFGVNDLREGQYMTDNT 226
DB 246 KSYDAEQLCREAKGQLASPRSSAENAVTQMV-RAQEKNAIYLSMNDISTEGRTYPTGE 304
QY 227 PLQNSNNNEGP--SDPYGHEDCVMLSSGRWNDECHLTMTYFVCEP 272
DB 305 ILV-YSNWADGEPNNSDEGQENCVEIFPDGKNDVPCSKQLLVICF 351

RESULT 3
US-09-198-603C-2
; Sequence 2, Application US/09198603C
; Patent No. 6337193

GENERAL INFORMATION:
; APPLICANT: TULLY, Raymond E.
; APPLICANT: CALTAGIRONE, G. Thomas
; APPLICANT: MOYER, Shawn S.
; APPLICANT: RONNING, Michael T.
; TITLE OF INVENTION: EXPRESSION OF MANNOSE-BINDING PROTEIN IN METHYLOTROPHIC
; FILE REFERENCE: A7290
; CURRENT APPLICATION NUMBER: US/09/198,603C
; NUMBER OF SEQ ID NOS: 26
; FILING DATE: 1998-11-24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human
US-09-198-603C-2
Query Match 19.5%; Score 289.5; DB 4; Length 248;
Best Local Similarity 31.1%; Pred. No. 3.6e-21;
Matches 75; Conservative 37; Mismatches 100; Indels 29; Gaps 7;
QY 34 PTAEVCAHTHIS--PGPKGDDGKGDGPGEGKHGKVGKMGPKGKIGELGDMGDRGNIGK 91
DB 33 PAVIACSSPGINGFPGRDGRDGTGKGEKGPQ-----GLRGLQPPGKLGPPGPGPS 85
QY 92 GPIGKKDKGKGLGIPGKKGKAGTVCDCGRYKRVGQLDISIAELKTSKMFVKNVIAIG 151
DB 86 GSPGPKGQKGDG-----KSPDGSSSLAASERK---ALQTEMARIKKWLTFLSLG---- 131
QY 152 IRETEKPYIVQEEKNYRESLTHCIRGNGLAMPDEAANTLIADYVAKSGFFRVFGV 211
DB 132 -KQVGNKFFLTNGEIMTEFKVKALCVKFOASVATPRNAAENGAIONLIKE-----BAFLGI 186
QY 212 NDLEREGQYMTDNTPLQNSNNNEGPSPDPYGHEDCVMLSSGRWNDECHLTMTYFVCE 271
DB 187 TDEKTEGQFVDLGNRL-TYTNWNEGEPNNSAGSDRDCVLLKNGQWNVPCSTSHLAVCE 245
QY 272 F 272
DB 246 F 246
RESULT 4
US-09-453-702B-265
; Sequence 265, Application US/09453702B
; Patent No. 6365723
; GENERAL INFORMATION:
; APPLICANT: Blattner, Frederick R.
; Burland, Valerie
; Perna, Nicole T.
; Plunkett, Guy
; Welch, Rod
; TITLE OF INVENTION: No. 6365723el Sequences of E. coli O157
; NUMBER OF SEQUENCES: 265
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Quarles & Brady
; STREET: 1 South Pinckney Street
; CITY: Madison
; STATE: WI
; COUNTRY: US
; ZIP: 53701-2113
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch. 1.44Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 8.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/453,702B
; FILING DATE: 03-Dec-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/110,955

```

; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin ver. 2.1
; SEQ ID NO 11
; LENGTH: 139
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-535-521-11

Query Match      13.6%; Score 202.5; DB 4; Length 139;
Best Local Similarity 37.6%; Pred. No. 9.4e-13;
Matches 44; Conservative 21; Mismatches 47; Indels 5; Gaps 3

QY      156 BEKFYIVQEEKVRESLTHCRIRGGMLAMPKDEAANTLIADYVAKSGFFRVFIGVNDLE 215
DB      22 QKQCYFGEPEKKVIQAFACKLQGLASIHSGEEQDFLARYANKKG---TWIGLRDLD 78

QY      216 RGQYWFDTNTPLQYNSWNNEGSPDPYGHEDCVMLSSGRWNDETECHLTM-YFVCE 271
DB      79 REGEFIWMDENPL-NYSNWRPGEPNNGQGEDCVMMQSGQWDAFCGSSLDGWVCD 134

RESULT 7
US-09-535-521-14
; Sequence 14, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 14
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-535-521-14

Query Match      13.6%; Score 202.5; DB 4; Length 141;
Best Local Similarity 37.6%; Pred. No. 9.6e-13;
Matches 44; Conservative 21; Mismatches 47; Indels 5; Gaps 3

QY      156 BEKFYIVQEEKVRESLTHCRIRGGMLAMPKDEAANTLIADYVAKSGFFRVFIGVNDLE 215
DB      24 QKQCYFGEPEKKVIQAFACKLQGLASIHSGEEQDFLARYANKKG---TWIGLRDLD 80

QY      216 RGQYWFDTNTPLQYNSWNNEGSPDPYGHEDCVMLSSGRWNDETECHLTM-YFVCE 271
DB      81 REGEFIWMDENPL-NYSNWRPGEPNNGQGEDCVMMQSGQWDAFCGSSLDGWVCD 136

RESULT 8
US-09-535-521-17
; Sequence 17, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5

```

; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-535-521-17

Query Match 13.6%; Score 202.5; DB 4; Length 187;

Best Local Similarity 37.6%; Pred. No. 1.4e-12;
Matches 44; Conservative 21; Mismatches 47; Indels 5; Gaps 3;
QY 156 BEKYYIVQEEKYRESLTHCRIRGGMAMPKDEAANTLIADYVAKSGFFRVFIGVNDLE 215
Db 70 QKCYFGEPPKWKIQARFACSKLQGRLASIHSQEQDFLARYANKG---TWIGLRDLD 126
QY 216 REGQYMTDNTPLQYNNWNEGEPSPDYGHEDCVEMLSGRWNTDECHLTW-YFVCE 271
Db 127 REGEIFWMDENPL-NYSNWRPGEPPNNGQGEDCVMMQSGQWMDAFGSSLDGWCD 182

RESULT 9

US-09-535-521-20
; Sequence 20, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-535-521-20

Query Match 13.6%; Score 202.5; DB 4; Length 208;

Best Local Similarity 37.6%; Pred. No. 1.6e-12;
Matches 44; Conservative 21; Mismatches 47; Indels 5; Gaps 3;
QY 156 BEKYYIVQEEKYRESLTHCRIRGGMAMPKDEAANTLIADYVAKSGFFRVFIGVNDLE 215
Db 91 QKCYFGEPPKWKIQARFACSKLQGRLASIHSQEQDFLARYANKG---TWIGLRDLD 147
QY 216 REGQYMTDNTPLQYNNWNEGEPSPDYGHEDCVEMLSGRWNTDECHLTW-YFVCE 271
Db 148 REGEIFWMDENPL-NYSNWRPGEPPNNGQGEDCVMMQSGQWMDAFGSSLDGWCD 203

RESULT 10

US-09-535-521-2
; Sequence 2, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913

; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-535-521-2

Query Match 13.6%; Score 202.5; DB 4; Length 292;

Best Local Similarity 37.6%; Pred. No. 2.6e-12;
Matches 44; Conservative 21; Mismatches 47; Indels 5; Gaps 3;
QY 156 BEKYYIVQEEKYRESLTHCRIRGGMAMPKDEAANTLIADYVAKSGFFRVFIGVNDLE 215
Db 175 QKCYFGEPPKWKIQARFACSKLQGRLASIHSQEQDFLARYANKG---TWIGLRDLD 231
QY 216 REGQYMTDNTPLQYNNWNEGEPSPDYGHEDCVEMLSGRWNTDECHLTW-YFVCE 271
Db 232 REGEIFWMDENPL-NYSNWRPGEPPNNGQGEDCVMMQSGQWMDAFGSSLDGWCD 287

RESULT 11

US-09-535-521-5
; Sequence 5, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-535-521-5

Query Match 13.6%; Score 202.5; DB 4; Length 292;

Best Local Similarity 37.6%; Pred. No. 2.6e-12;
Matches 44; Conservative 21; Mismatches 47; Indels 5; Gaps 3;
QY 156 BEKYYIVQEEKYRESLTHCRIRGGMAMPKDEAANTLIADYVAKSGFFRVFIGVNDLE 215
Db 175 QKCYFGEPPKWKIQARFACSKLQGRLASIHSQEQDFLARYANKG---TWIGLRDLD 231
QY 216 REGQYMTDNTPLQYNNWNEGEPSPDYGHEDCVEMLSGRWNTDECHLTW-YFVCE 271
Db 232 REGEIFWMDENPL-NYSNWRPGEPPNNGQGEDCVMMQSGQWMDAFGSSLDGWCD 287

RESULT 12

US-09-535-521-25
; Sequence 25, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 25
LENGTH: 123
TYPE: PRT
ORGANISM: Canis familiaris
S-09-535-521-25

Query Match 13.5%; Score 201; DB 4; Length 123;
Best Local Similarity 39.3%; Pred. No. 1.1e-12;
Matches 42; Conservative 17; Mismatches 44; Indels 4; Gaps 2;

Y 156 EKFYIVQEKNYBESLTHCIRGCMAMPKDEANNTLIADYVAKSGFRVFTGVNDLE 215
C 14 QKCYIFGEPKKTQAFACSKLQRLASHSQEQDFLARYANKG---TWIGLESLD 70
Y 216 REQVMFTDNTPLQYNNWNEGPDYCHDCVEMLSGGWNTTC 262
C 71 REGEFIWMDENFL-NYSNWRPGEPPNNGGGEDCVMMQSGQWMDAFC 116

RESULT 13
S-08-931-820-2
Sequence 2, Application US/08931820
Patent No. 6010863
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Assay for collagen degradation
NUMBER OF SEQUENCES: 4
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/931,820
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 96202596.1
FILING DATE:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1024 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: Collagen type I
S-08-931-820-2

Query Match 12.9%; Score 191.5; DB 3; Length 1024;
Best Local Similarity 43.5%; Pred. No. 1.8e-10;
Matches 40; Conservative 9; Mismatches 22; Indels 21; Gaps 2;

Y 46 PGPKGDDGKGPGEKGKGVKRGKPKIGKGLDMGDRGNIGKTGPIGKK----- 97
b 479 PGPSGPAVEGVKPGERGLHGFGLPGPAGPRGERGPPGESGAAGTGTGIGSRGSPGPPG 538
Y 98 -GDKGEKGLL-----GIPGEKKGAG 116
b 539 DGNKGEFVGVAVGTAGPSGSPGLPGERGAAG 570

RESULT 14
S-08-963-825-19
Sequence 19, Application US/08963825
Patent No. 6110689
GENERAL INFORMATION:
APPLICANT: Qvist, Per
APPLICANT: Bonde, Martin
TITLE OF INVENTION: A Method for Assaying Collagen Fragments
TITLE OF INVENTION: in Body Fluids, A Test Kit and Means for Carrying Out the
TITLE OF INVENTION: Method and Use of the Method to Diagnose the Presence of
TITLE OF INVENTION: Disorders Associated with the Metabolism of
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby PC
STREET: 805 Third Avenue
CITY: New York
STATE: New York

Y 46 PGPKGDDGKGPGEKGKGVKRGKPKIGKGLDMGDRGNIGKTGPIGKK----- 97
b 558 PGPSGPAVEGVKPGERGLHGFGLPGPAGPRGERGPPGESGAAGTGTGIGSRGSPGPPG 617
Y 98 -GDKGEKGLL-----GIPGEKKGAG 116
b 618 DGNKGEFVGVAVGTAGPSGSPGLPGERGAAG 649

Query Match 12.9%; Score 191.5; DB 3; Length 1366;
Best Local Similarity 43.5%; Pred. No. 2.7e-10;
Matches 40; Conservative 9; Mismatches 22; Indels 21; Gaps 2;

Y 46 PGPKGDDGKGPGEKGKGVKRGKPKIGKGLDMGDRGNIGKTGPIGKK----- 97
b 558 PGPSGPAVEGVKPGERGLHGFGLPGPAGPRGERGPPGESGAAGTGTGIGSRGSPGPPG 617
Y 98 -GDKGEKGLL-----GIPGEKKGAG 116
b 618 DGNKGEFVGVAVGTAGPSGSPGLPGERGAAG 649

RESULT 15
US-09-500-811-19
Sequence 19, Application US/09500811
Patent No. 6323314
GENERAL INFORMATION:
APPLICANT: Qvist, Per
APPLICANT: Bonde, Martin
TITLE OF INVENTION: A Method for Assaying Collagen Fragments
TITLE OF INVENTION: in Body Fluids, A Test Kit and Means for Carrying Out the
TITLE OF INVENTION: Method and Use of the Method to Diagnose the Presence of
TITLE OF INVENTION: Disorders Associated with the Metabolism of
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby PC
STREET: 805 Third Avenue
CITY: New York
STATE: New York

Y 46 PGPKGDDGKGPGEKGKGVKRGKPKIGKGLDMGDRGNIGKTGPIGKK----- 97
b 558 PGPSGPAVEGVKPGERGLHGFGLPGPAGPRGERGPPGESGAAGTGTGIGSRGSPGPPG 617
Y 98 -GDKGEKGLL-----GIPGEKKGAG 116
b 618 DGNKGEFVGVAVGTAGPSGSPGLPGERGAAG 649

```
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/500.811
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/187,319
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Gogoris, Adda C
; REGISTRATION NUMBER: 29,714
; REFERENCE/DOCKET NUMBER: 4305/08701
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-527-7700
; TELEFAX: 212-753-6237
; TELEX: 236687
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1386 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; IMMEDIATE SOURCE:
; CLONE: collagen alpha 2- type I
; US-09-500-811-19

Query Match 12.9%; Score 191.5; DB 4; Length 1366;
Best Local Similarity 43.5%; Pred. No. 2.7e-10;
Matches 40; Conservative 9; Mismatches 22; Indels 21; Gaps 2;

QY 45 PGPKGDDGKDPGEGKHGKVGKMGPKIGKELGDMGDRGNICKTGPIGKK----- 97
Db 558 PGPSPGAGEVKGPRGRLHGEFGLPGPAGPRGERGPPGSGAGAGTGPICSGRFGSPGP 617
QY 98 -GDKGEGKGLL-----GIPGEXKGAG 116
Db 618 DGNKGEPGVGVGAVGTAGPSGSLPGERGAAG 649

Search completed: February 24, 2004, 02:29:32
Job time : 24 secs
```

GenCore version 5.1.6
Copyright (C) 1993 - 2004 CompuGen Ltd.

M protein - protein search, using sw model

un on: February 24, 2004, 02:24:27 : Search time 248 Seconds
(without alignments)
235.845 Million cell updates/sec

file: US-09-600-932-2
effect score: 1484
sequence: 1 MNGFASLLRRNGFILLVLF.....NDTECHLTMYVCFIKKK 277

coring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

searched: 809742 seqs, 211153259 residues

total number of hits satisfying chosen parameters: 809742

inimum DB seq length: 0

aximum DB seq length: 200000000

ost-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.*
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US03A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Query Match	Length	ID	Description
1	1472	99.2	277	9	US-09-978-295A-97
2	1472	99.2	277	9	US-09-978-697-97
3	1472	99.2	277	9	US-09-978-192A-97
4	1472	99.2	277	9	US-09-999-832A-97
5	1472	99.2	277	10	US-09-978-189-97
6	1472	99.2	277	10	US-09-978-608A-97
7	1472	99.2	277	10	US-09-978-585A-97
8	1472	99.2	277	10	US-09-978-191A-97
9	1472	99.2	277	10	US-09-978-403A-97
10	1472	99.2	277	10	US-09-978-584A-97
11	1472	99.2	277	10	US-09-998-833A-97
12	1472	99.2	277	10	US-09-981-915A-97
13	1472	99.2	277	10	US-09-978-824-97
14	1472	99.2	277	10	US-09-918-585A-97
15	1472	99.2	277	10	US-09-978-423A-97

16	1472	99.2	277	10	US-09-978-193A-97
17	1472	99.2	277	10	US-09-999-830A-97
18	1472	99.2	277	10	US-09-978-757A-97
19	1472	99.2	277	10	US-09-978-187B-97
20	1472	99.2	277	10	US-09-978-643A-97
21	1472	99.2	277	10	US-09-978-375A-97
22	1472	99.2	277	10	US-09-978-298A-97
23	1472	99.2	277	10	US-09-978-188A-97
24	1472	99.2	277	10	US-09-978-681A-97
25	1472	99.2	277	10	US-09-978-194A-97
26	1472	99.2	277	10	US-09-999-829A-97
27	1472	99.2	277	10	US-09-978-299A-97
28	1472	99.2	277	10	US-09-978-544A-97
29	1472	99.2	277	10	US-09-978-665A-97
30	1472	99.2	277	10	US-09-978-802A-97
31	1472	99.2	277	13	US-10-052-586-100
32	1472	99.2	277	14	US-10-174-590-100
33	1472	99.2	277	14	US-10-176-758-100
34	1472	99.2	277	14	US-10-175-737-100
35	1472	99.2	277	14	US-10-173-706-100
36	1472	99.2	277	14	US-10-175-738-100
37	1472	99.2	277	14	US-10-175-752-100
38	1472	99.2	277	14	US-10-176-482-100
39	1472	99.2	277	14	US-10-176-757-100
40	1472	99.2	277	14	US-10-176-913-100
41	1472	99.2	277	14	US-10-180-557-100
42	1472	99.2	277	14	US-10-180-557-100
43	1472	99.2	277	14	US-10-173-700-100
44	1472	99.2	277	14	US-10-174-572-100
45	1472	99.2	277	14	US-10-174-579-100

ALIGNMENTS

RESULT 1

US-09-978-295A-97
; Sequence 97, Application US/09978295A
; Patent No. US20020156006A1

GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC11
; CURRENT APPLICATION NUMBER: US/09/978,295A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585

1	PRIOR APPLICATION NUMBER: 60/0812229
2	PRIOR FILING DATE: 1998-04-09
3	PRIOR APPLICATION NUMBER: 60/081955
4	PRIOR FILING DATE: 1998-04-15
5	PRIOR APPLICATION NUMBER: 60/081017
6	PRIOR FILING DATE: 1998-04-15
7	PRIOR APPLICATION NUMBER: 60/081819
8	PRIOR FILING DATE: 1998-04-15
9	PRIOR APPLICATION NUMBER: 60/081952
10	PRIOR FILING DATE: 1998-04-15
11	PRIOR APPLICATION NUMBER: 60/081838
12	PRIOR FILING DATE: 1998-04-15
13	PRIOR APPLICATION NUMBER: 60/082568
14	PRIOR FILING DATE: 1998-04-21
15	PRIOR APPLICATION NUMBER: 60/082569
16	PRIOR FILING DATE: 1998-04-21
17	PRIOR APPLICATION NUMBER: 60/082704
18	PRIOR FILING DATE: 1998-04-22
19	PRIOR APPLICATION NUMBER: 60/082804
20	PRIOR FILING DATE: 1998-04-22
21	PRIOR APPLICATION NUMBER: 60/082700
22	PRIOR FILING DATE: 1998-04-22
23	PRIOR APPLICATION NUMBER: 60/082797
24	PRIOR FILING DATE: 1998-04-22
25	PRIOR APPLICATION NUMBER: 60/082796
26	PRIOR FILING DATE: 1998-04-23
27	PRIOR APPLICATION NUMBER: 60/083336
28	PRIOR FILING DATE: 1998-04-27
29	PRIOR APPLICATION NUMBER: 60/083322
30	PRIOR FILING DATE: 1998-04-28
31	PRIOR APPLICATION NUMBER: 60/083392
32	PRIOR FILING DATE: 1998-04-29
33	PRIOR APPLICATION NUMBER: 60/083495
34	PRIOR FILING DATE: 1998-04-29
35	PRIOR APPLICATION NUMBER: 60/083496
36	PRIOR FILING DATE: 1998-04-29
37	PRIOR APPLICATION NUMBER: 60/083499
38	PRIOR FILING DATE: 1998-04-29
39	PRIOR APPLICATION NUMBER: 60/083545
40	PRIOR FILING DATE: 1998-04-29
41	PRIOR APPLICATION NUMBER: 60/083554
42	PRIOR FILING DATE: 1998-04-30
43	PRIOR APPLICATION NUMBER: 60/083558
44	PRIOR FILING DATE: 1998-04-29
45	PRIOR APPLICATION NUMBER: 60/083559
46	PRIOR FILING DATE: 1998-04-29
47	PRIOR APPLICATION NUMBER: 60/083500
48	PRIOR FILING DATE: 1998-04-29
49	PRIOR APPLICATION NUMBER: 60/083742
50	PRIOR FILING DATE: 1998-04-30
51	PRIOR APPLICATION NUMBER: 60/084366
52	PRIOR FILING DATE: 1998-05-05
53	PRIOR APPLICATION NUMBER: 60/084414
54	PRIOR FILING DATE: 1998-05-06
55	PRIOR APPLICATION NUMBER: 60/084441
56	PRIOR FILING DATE: 1998-05-06
57	PRIOR APPLICATION NUMBER: 60/084600
58	PRIOR FILING DATE: 1998-05-07
59	PRIOR APPLICATION NUMBER: 60/084637
60	PRIOR FILING DATE: 1998-05-07
61	PRIOR APPLICATION NUMBER: 60/084639
62	PRIOR FILING DATE: 1998-05-07
63	PRIOR APPLICATION NUMBER: 60/084640
64	PRIOR FILING DATE: 1998-05-07
65	PRIOR APPLICATION NUMBER: 60/084598
66	PRIOR FILING DATE: 1998-05-07
67	PRIOR APPLICATION NUMBER: 60/084600
68	PRIOR FILING DATE: 1998-05-07
69	PRIOR APPLICATION NUMBER: 60/084627
70	PRIOR FILING DATE: 1998-05-07
71	PRIOR APPLICATION NUMBER: 60/084643
72	PRIOR FILING DATE: 1998-05-07
73	PRIOR APPLICATION NUMBER: 60/085339
74	PRIOR FILING DATE: 1998-05-13
75	PRIOR APPLICATION NUMBER: 60/085338
76	PRIOR FILING DATE: 1998-05-13

PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 99.2%; Score 1472; DB 9; Length 277;
Best Local Similarity 99.3%; Pred. No. 1.4e-137;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
y 1 MNGFASLRNNOFILLVLFLLQISLGLDIDSRPTAEVCATHTISPGKGGDGEKGDGGE 60
b 1 MNGFASLRNNOFILLVLFLLQISLGLDIDSRPTAEVCATHTISPGKGGDGEKGDGGE 60
y 61 EGKHGKVGSMGPKIGKELGMDGDRGNICKTGPICKKGDGKGLLGPGEKGAAGTVCD 120
b 61 EGKHGKVGSMGPKIGKELGMDGDRGNICKTGPICKKGDGKGLLGPGEKGAAGTVCD 120
y 121 CGRYKFKVQQLDISARLKTSMKFKVQVIAIRETEKFPYIVQEEKNYRESLTHCRIRG 180
b 121 CGRYKFKVQQLDISARLKTSMKFKVQVIAIRETEKFPYIVQEEKNYRESLTHCRIRG 180
y 181 GMLAMPKDEAANTLADYVAKSGFFRFIGVNDLEREGQYMTDNTPLQYSNWNEGEPS 240
b 181 GMLAMPKDEAANTLADYVAKSGFFRFIGVNDLEREGQYMTDNTPLQYSNWNEGEPS 240
y 241 DPGHEDCVEMLSGRWNTDECHLTMYFVCFIKKK 277
b 241 DPGHEDCVEMLSGRWNTDECHLTMYFVCFIKKK 277

ESULT 2

S-09-978-697-97
Sequence 97, Application US/09978697

Patent No. US20020169284A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.

APPLICANT: Tamas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C27
CURRENT APPLICATION NUMBER: US/09/978,697
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070

1	PRIOR FILING DATE: 1998-04-08	
2	PRIOR APPLICATION NUMBER: 60/081049	
3	PRIOR FILING DATE: 1998-04-08	
4	PRIOR APPLICATION NUMBER: 60/081071	
5	PRIOR FILING DATE: 1998-04-08	
6	PRIOR APPLICATION NUMBER: 60/081195	
7	PRIOR FILING DATE: 1998-04-08	
8	PRIOR APPLICATION NUMBER: 60/081203	
9	PRIOR FILING DATE: 1998-04-09	
10	PRIOR APPLICATION NUMBER: 60/081229	
11	PRIOR FILING DATE: 1998-04-09	
12	PRIOR APPLICATION NUMBER: 60/081955	
13	PRIOR FILING DATE: 1998-04-15	
14	PRIOR APPLICATION NUMBER: 60/081817	
15	PRIOR FILING DATE: 1998-04-15	
16	PRIOR APPLICATION NUMBER: 60/081819	
17	PRIOR FILING DATE: 1998-04-15	
18	PRIOR APPLICATION NUMBER: 60/081952	
19	PRIOR FILING DATE: 1998-04-15	
20	PRIOR APPLICATION NUMBER: 60/081938	
21	PRIOR FILING DATE: 1998-04-15	
22	PRIOR APPLICATION NUMBER: 60/082568	
23	PRIOR FILING DATE: 1998-04-21	
24	PRIOR APPLICATION NUMBER: 60/082569	
25	PRIOR FILING DATE: 1998-04-21	
26	PRIOR APPLICATION NUMBER: 60/082704	
27	PRIOR FILING DATE: 1998-04-22	
28	PRIOR APPLICATION NUMBER: 60/082804	
29	PRIOR FILING DATE: 1998-04-22	
30	PRIOR APPLICATION NUMBER: 60/082700	
31	PRIOR FILING DATE: 1998-04-22	
32	PRIOR APPLICATION NUMBER: 60/082797	
33	PRIOR FILING DATE: 1998-04-22	
34	PRIOR APPLICATION NUMBER: 60/082796	
35	PRIOR FILING DATE: 1998-04-23	
36	PRIOR APPLICATION NUMBER: 60/083336	
37	PRIOR FILING DATE: 1998-04-27	
38	PRIOR APPLICATION NUMBER: 60/083322	
39	PRIOR FILING DATE: 1998-04-28	
40	PRIOR APPLICATION NUMBER: 60/083392	
41	PRIOR FILING DATE: 1998-04-29	
42	PRIOR APPLICATION NUMBER: 60/083495	
43	PRIOR FILING DATE: 1998-04-29	
44	PRIOR APPLICATION NUMBER: 60/083496	
45	PRIOR FILING DATE: 1998-04-29	
46	PRIOR APPLICATION NUMBER: 60/083499	
47	PRIOR FILING DATE: 1998-04-29	
48	PRIOR APPLICATION NUMBER: 60/083545	
49	PRIOR FILING DATE: 1998-04-29	
50	PRIOR APPLICATION NUMBER: 60/083554	
51	PRIOR FILING DATE: 1998-04-29	
52	PRIOR APPLICATION NUMBER: 60/083558	
53	PRIOR FILING DATE: 1998-04-29	
54	PRIOR APPLICATION NUMBER: 60/083559	
55	PRIOR FILING DATE: 1998-04-29	
56	PRIOR APPLICATION NUMBER: 60/083500	
57	PRIOR FILING DATE: 1998-04-29	
58	PRIOR APPLICATION NUMBER: 60/083742	
59	PRIOR FILING DATE: 1998-04-30	
60	PRIOR APPLICATION NUMBER: 60/084366	
61	PRIOR FILING DATE: 1998-05-05	
62	PRIOR APPLICATION NUMBER: 60/084414	
63	PRIOR FILING DATE: 1998-05-06	
64	PRIOR APPLICATION NUMBER: 60/084441	
65	PRIOR FILING DATE: 1998-05-06	
66	PRIOR APPLICATION NUMBER: 60/084637	
67	PRIOR FILING DATE: 1998-05-07	
68	PRIOR APPLICATION NUMBER: 60/084639	
69	PRIOR FILING DATE: 1998-05-07	
70	PRIOR APPLICATION NUMBER: 60/084640	
71	PRIOR FILING DATE: 1998-05-07	
72	PRIOR APPLICATION NUMBER: 60/084598	
73	PRIOR FILING DATE: 1998-05-07	

```

/ PRIOR APPLICATION NUMBER: 60/084600
/ PRIOR FILING DATE: 1998-5-07
/ PRIOR APPLICATION NUMBER: 60/084627
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084643
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/085339
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085358
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085323
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085582
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085700
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085689
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085579
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085580
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085573
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085704
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085697

Query Match          99.2%; Score 1472; DB 9; Length 277;
Best Local Similarity 99.3%; Pred. No. 1.4e-137;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1  MNGPASILRRNQIFILVLFLLOIQSLGIDISRPAEVCATHTISPOPKDDGKGDPGE 60
Db      1  MNGPASILRRNQIFILVLFLLOIQSLGIDISRPAEVCATHTISPOPKDDGKGDPGE 60
QY      61  EGKHGKVGMRGPKIGKIGELGDMGDGRNTGKTGPICKGDKGKGLLIGPEKKGAGTVCD 120
Db      61  EGKHGKVGMRGPKIGKIGELGDMGDQGNKTGTPICKGDKGKGLLIGPEKKGAGTVCD 120
QY      121  CGRYKRFVGOLDISIALRKTSMKFKVNVIAGIRETEEFYIVIOEEKYRESLTHCKIRG 180
Db      121  CGRYKRFVGOLDISIALRKTSMKFKVNVIAGIRETEEFYIVIOEEKYRESLTHCKIRG 180
QY      181  GMLAMPDKEAANTLIADYVAKSGFRFRVTGVNDLREGCYMTDNTPLQNSYNNNEGEPS 240
Db      181  GMLAMPDKEAANTLIADYVAKSGFRFRVTGVNDLREGCYMTDNTPLQNSYNNNEGEPS 240
QY      241  DPYGHEDCVMLSSGWNDBTECHLTWYFYCFIKKK 277
Db      241  DPYGHEDCVMLSSGWNDBTECHLTWYFYCFIKKK 277

```

RESULT 3
US-09-978-192A-97
/ Sequence 97, Application US/09978192A
/ Patent NO. US2002017753A1
/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi
/ APPLICANT: Baker Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnovers, Luc
/ APPLICANT: Eaton, Dan
/ APPLICANT: Ferrara, Napoleon
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Grittisen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, J. Christopher
/ APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth J
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuc, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC9
CURRENT APPLICATION NUMBER: US/09/978,192A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441

; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084637
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084598
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084627
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085339
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085338
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 99.2%; Score 1472; DB 9; Length 277; Best Local Similarity 99.3%; Pred No. 1,4e-137; Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNGFASLRLRNQFILLVFLIQISGLDIDSRPTAEVCATHITSPGKGDDEKGDGPE 60
DB 1 MNGFASLRLRNQFILLVFLIQISGLDIDSRPTAEVCATHITSPGKGDDEKGDGPE 60
QY 61 EGKHGKVGWGPKGKGLGDMGDGNIGKTPGKKGDKGKGLGIPGKKGKAGTVCD 120
DB 61 EGKHGKVGWGPKGKGLGDMGDGNIGKTPGKKGDKGKGLGIPGKKGKAGTVCD 120
QY 121 CGRYKRVQQLDISIARLKTSMKFKVKNVIAGIRETEKFFYIVQEEKYRESLTHCRIRG 180
DB 121 CGRYKRVQQLDISIARLKTSMKFKVKNVIAGIRETEKFFYIVQEEKYRESLTHCRIRG 180
QY 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREGQYMTDNTPLQNSWNNEGPS 240
DB 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREGQYMTDNTPLQNSWNNEGPS 240
QY 241 DPGHEDCVEMLSGRWNTDECHLTMYFVCFIFKXK 277
DB 241 DPGHEDCVEMLSGRWNTDECHLTMYFVCFIFKXK 277

RESULT 4

US-09-999-832A-97
; Sequence 97, Application US/09999832A
; Publication No. US20020192706A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon

; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C63
; CURRENT FILING DATE: 2001-10-24
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077791
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079664
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079663
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079786
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079920
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/079923

PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29

PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 99.2%; Score 1472; DQ 9; Length 277;

Best Local Similarity 99.3%; Pred. No. 1.4e-137; Mismatches 1; Indels 0; Gaps 0;
Matches 275; Conservative

QY 1 MNGFASLLRRNQFILLVFLIIQISLGLDIDSRPTAEVCATHITISPGKGDGKDPGE 60
DB 1 MNGFASLLRRNQFILLVFLIIQISLGLDIDSRPTAEVCATHITISPGKGDGKDPGE 60
QY 61 EKHGKVGMRGPKIGKELGDMGRGNIGKTGPIGKKGDKGKGLLIGPKGKAGTVCD 120
DB 61 EKHGKVGMRGPKIGKELGDMGRGNIGKTGPIGKKGDKGKGLLIGPKGKAGTVCD 120
QY 121 CGRYKRFVQGLDISIARLKTSMKFKVKNVIAGIRTEKFFYIVQEEKNYRESLTHCRIRG 180
DB 121 CGRYKRFVQGLDISIARLKTSMKFKVKNVIAGIRTEKFFYIVQEEKNYRESLTHCRIRG 180
QY 181 GMLAMPKDEAAANTLIADYVAKSGFFRVFIGVNDLREGQYMFDTNTPLQYSNWNEGPS 240
DB 181 GMLAMPKDEAAANTLIADYVAKSGFFRVFIGVNDLREGQYMFDTNTPLQYSNWNEGPS 240
QY 241 DPYGHEDCVEMLSGRWNDECHLTMTYFVCEFIKXXX 277
DB 241 DPYGHEDCVEMLSGRWNDECHLTMTYFVCEFIKXXX 277

RESULT 5

US-09-978-189-97

Sequence 97, Application US/09978189
Publication No. US20030004102A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Giang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: P2630PIC7
CURRENT APPLICATION NUMBER: US/09/978,189
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499

PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 99.2%; Score 1472; DB 10; Length 277;
Best Local Similarity 99.3%; Pred. No. 1.4e-137;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Y 1 MNGFASLLRRNQFILLVFLQIQSLGLDIDSRPTAEVCATHTISPGPKGDDGEGKDPGE 60
b 1 MNGFASLLRRNQFILLVFLQIQSLGLDIDSRPTAEVCATHTISPGPKGDDGEGKDPGE 60
Y 61 EGKHGKVGVRGPKGKGLGDMGDRGNIGKTPIGKKGDKGKGLLGPGEKAGTVC 120
b 61 EGKHGKVGVRGPKGKGLGDMGDOGNIGKTPIGKKGDKGKGLLGPGEKAGTVC 120
Y 121 CGRYRKFVGQDISIARLKTSMKFNKVNVIAGIRETEEFYIVQEEKYRSLTHCRIRG 180
b 121 CGRYRKFVGQDISIARLKTSMKFNKVNVIAGIRETEEFYIVQEEKYRSLTHCRIRG 180
Y 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREGQYMTDNTPLQNSNNWNEGEP 240
b 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREGQYMTDNTPLQNSNNWNEGEP 240
Y 241 DPYGHEDCVEMLSGGRWNTDTECHLTMYFVCFIKKK 277

Db 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREGQYMTDNTPLQNSNNWNEGEP 240
Qy 241 DPYGHEDCVEMLSGGRWNTDTECHLTMYFVCFIKKK 277
Db 241 DPYGHEDCVEMLSGGRWNTDTECHLTMYFVCFIKKK 277

RESULT 6

US-09-978-608A-97
; Sequence 97, Application US/09978608A
; Publication No. US20030045462A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PIC22
; CURRENT APPLICATION NUMBER: US/09/978,608A
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 97
; LENGTH: 277
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-608A-97

Query Match 99.2%; Score 1472; DB 10; Length 277;
Best Local Similarity 99.3%; Pred. No. 1.4e-137;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MNGFASLLRRNQFILLVFLQIQSLGLDIDSRPTAEVCATHTISPGPKGDDGEGKDPGE 60
Db 1 MNGFASLLRRNQFILLVFLQIQSLGLDIDSRPTAEVCATHTISPGPKGDDGEGKDPGE 60
Qy 61 EGKHGKVGVRGPKGKGLGDMGDRGNIGKTPIGKKGDKGKGLLGPGEKAGTVC 120
Db 61 EGKHGKVGVRGPKGKGLGDMGDOGNIGKTPIGKKGDKGKGLLGPGEKAGTVC 120
Qy 121 CGRYRKFVGQDISIARLKTSMKFNKVNVIAGIRETEEFYIVQEEKYRSLTHCRIRG 180
Db 121 CGRYRKFVGQDISIARLKTSMKFNKVNVIAGIRETEEFYIVQEEKYRSLTHCRIRG 180
Qy 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREGQYMTDNTPLQNSNNWNEGEP 240
Db 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLREGQYMTDNTPLQNSNNWNEGEP 240
Qy 241 DPYGHEDCVEMLSGGRWNTDTECHLTMYFVCFIKKK 277

Db 241 DPYGHDCVEMLSGRWNDTECHLTMTYFVCFFIKKK 277

RESULT 7
US-09-978-585A-97
; Sequence 97, Application US/09978585A
; Publication No. US20030049633A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C15
; CURRENT APPLICATION NUMBER: US/09/978,585A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 97
; LENGTH: 277
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-585A-97

Query Match 99.2%; Score 1472; DB 10; Length 277;
Best Local Similarity 99.3%; Pred. No. 1.4e-137;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNGFASLLRNQFIILLVLFLLIQISGLDIDSRPTAEVCATHTISPQKDDGEGDPGE 60
Db 1 MNGFASLLRNQFIILLVLFLLIQISGLDIDSRPTAEVCATHTISPQKDDGEGDPGE 60
QY 61 EGKHGVGMGPKGIGKELGMDGRNIGTKPGTGKGDGKEGLLGIPEGKKGAGTVCD 120
Db 61 EGKHGVGMGPKGIGKELGMDGRNIGTKPGTGKGDGKEGLLGIPEGKKGAGTVCD 120
QY 121 CGRYKRFVQLDISIARLKTSMKFKVNVIAGIRETEEFKYIVQEEKNYRESLTHCRIRG 180
Db 121 CGRYKRFVQLDISIARLKTSMKFKVNVIAGIRETEEFKYIVQEEKNYRESLTHCRIRG 180
QY 181 GLMAMPKDEAANTLIADYVAKSGPRFVIGVNDLEREQYMFTDNTPLQNSWNNGEPS 240
Db 181 GLMAMPKDEAANTLIADYVAKSGPRFVIGVNDLEREQYMFTDNTPLQNSWNNGEPS 240
QY 241 DPYGHDCVEMLSGRWNDTECHLTMTYFVCFFIKKK 277
Db 241 DPYGHDCVEMLSGRWNDTECHLTMTYFVCFFIKKK 277

PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29

PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query March 99.2%; Score 1472; DB 10; Length 277;
Best Local Similarity 99.3%; Pred. No. 1.4e-137;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy	1	MNGFASLLRRNQFILLVLFLQLQISGLDIDSRPTAEVCATHITSPGPKGDDGKGDGPE	60
Db	1	MNGFASLLRRNQFILLVLFLQLQISGLDIDSRPTAEVCATHITSPGPKGDDGKGDGPE	60
Qy	61	EGKHGKVGKMGPKGIKGLGMDGRNIGKTGPICKGDKGKGLLGPGEKKGAGTYCD	120
Db	61	EGKHGKVGKMGPKGIKGLGMDGDCGNIGKTGPICKGDKGKGLLGPGEKKGAGTYCD	120
Qy	121	CGYRKFFVGQLDISIARLKTSMKFKVNVIAGIRETEEFYIVQBEKYNRESLTHCRIRG	180
Db	121	CGYRKFFVGQLDISIARLKTSMKFKVNVIAGIRETEEFYIVQBEKYNRESLTHCRIRG	180

QY 181 GMLAMPKDEAAANTLIADYVAKSGFRFVIGVNDLREGQVMTDNTPLQYNSWNNEGEPS 240
DB 181 GMLAMPKDEAAANTLIADYVAKSGFRFVIGVNDLREGQVMTDNTPLQYNSWNNEGEPS 240
QY 241 DPYGHDCVEMLSGRWNTDTECHLTMTVFVCEFIKKKK 277
DB 241 DPYGHDCVEMLSGRWNTDTECHLTMTVFVCEFIKKKK 277

RESULT 9
US-09-978-403A-97
Sequence 97, Application US/09978403A
Publication No. US20030050240A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630PIC17
CURRENT APPLICATION NUMBER: US/09/978,403A
CURRENT FILING DATE: 2002-03-19
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796

PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085699
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 99.2%; Score 1472; DB 10; Length 277;
Best Local Similarity 99.3%; Pred. No. 1.4e-137;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
1 MNGFASLLRRNQIFILLVFLQIQSLGLDIDSRPTAEVCATHTISPGPKGDDGKGPGE 60
|||||

Db 1 MNGFASLLRRNQIFILLVFLQIQSLGLDIDSRPTAEVCATHTISPGPKGDDGKGPGE 60
Qy 61 EKGHGKVGEMGPKGIKGLGDMGDGNGIKTGPIKKGDKGKGLIGTIPGKKGAGTVC 120
Db 61 EKGHGKVGEMGPKGIKGLGDMGDGNGIKTGPIKKGDKGKGLIGTIPGKKGAGTVC 120
Qy 121 CGRYRKFVQGLDISIARLKTSMKPKVKNVIAGIRETEEFYIVQEEKNYRESLTHCRIRG 180
Db 121 CGRYRKFVQGLDISIARLKTSMKPKVKNVIAGIRETEEFYIVQEEKNYRESLTHCRIRG 180
Qy 181 GMLAMPKDEAANTLIADYVAKSGPRFVEIGYNDLREGEQYMTDNTPLONYSNWNEGEP 240
Db 181 GMLAMPKDEAANTLIADYVAKSGPRFVEIGYNDLREGEQYMTDNTPLONYSNWNEGEP 240
Qy 241 DPYGHEDCVEMLSGRWMDTECHLTMYFVCFEIKKK 277
Db 241 DPYGHEDCVEMLSGRWMDTECHLTMYFVCFEIKKK 277
RESULT 10
US-09-978-564A-97
; Sequence 97, Application US/09978564A
; Publication No. US20030050241A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC25
; CURRENT APPLICATION NUMBER: US/09/978,564A
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649

1 PRIOR FILING DATE: 1998-03-11
2 PRIOR APPLICATION NUMBER: 60/077791
3 PRIOR FILING DATE: 1998-03-12
4 PRIOR APPLICATION NUMBER: 60/078004
5 PRIOR FILING DATE: 1998-03-13
6 PRIOR APPLICATION NUMBER: 60/078886
7 PRIOR FILING DATE: 1998-03-20
8 PRIOR APPLICATION NUMBER: 60/078936
9 PRIOR FILING DATE: 1998-03-20
10 PRIOR APPLICATION NUMBER: 60/078910
11 PRIOR FILING DATE: 1998-03-20
12 PRIOR APPLICATION NUMBER: 60/078939
13 PRIOR FILING DATE: 1998-03-20
14 PRIOR APPLICATION NUMBER: 60/079294
15 PRIOR FILING DATE: 1998-03-25
16 PRIOR APPLICATION NUMBER: 60/079656
17 PRIOR FILING DATE: 1998-03-26
18 PRIOR APPLICATION NUMBER: 60/079664
19 PRIOR FILING DATE: 1998-03-27
20 PRIOR APPLICATION NUMBER: 60/079689
21 PRIOR FILING DATE: 1998-03-27
22 PRIOR APPLICATION NUMBER: 60/079663
23 PRIOR FILING DATE: 1998-03-27
24 PRIOR APPLICATION NUMBER: 60/079728
25 PRIOR FILING DATE: 1998-03-27
26 PRIOR APPLICATION NUMBER: 60/079786
27 PRIOR FILING DATE: 1998-03-27
28 PRIOR APPLICATION NUMBER: 60/079920
29 PRIOR FILING DATE: 1998-03-30
30 PRIOR APPLICATION NUMBER: 60/079923
31 PRIOR FILING DATE: 1998-03-30
32 PRIOR APPLICATION NUMBER: 60/080105
33 PRIOR FILING DATE: 1998-03-31
34 PRIOR APPLICATION NUMBER: 60/080107
35 PRIOR FILING DATE: 1998-03-31
36 PRIOR APPLICATION NUMBER: 60/080165
37 PRIOR FILING DATE: 1998-03-31
38 PRIOR APPLICATION NUMBER: 60/080194
39 PRIOR FILING DATE: 1998-03-31
40 PRIOR APPLICATION NUMBER: 60/080327
41 PRIOR FILING DATE: 1998-04-01
42 PRIOR APPLICATION NUMBER: 60/080328
43 PRIOR FILING DATE: 1998-04-01
44 PRIOR APPLICATION NUMBER: 60/080333
45 PRIOR FILING DATE: 1998-04-01
46 PRIOR APPLICATION NUMBER: 60/080334
47 PRIOR FILING DATE: 1998-04-01
48 PRIOR APPLICATION NUMBER: 60/081070
49 PRIOR FILING DATE: 1998-04-08
50 PRIOR APPLICATION NUMBER: 60/081049
51 PRIOR FILING DATE: 1998-04-08
52 PRIOR APPLICATION NUMBER: 60/081071
53 PRIOR FILING DATE: 1998-04-08
54 PRIOR APPLICATION NUMBER: 60/081195
55 PRIOR FILING DATE: 1998-04-08
56 PRIOR APPLICATION NUMBER: 60/081203
57 PRIOR FILING DATE: 1998-04-09
58 PRIOR APPLICATION NUMBER: 60/081229
59 PRIOR FILING DATE: 1998-04-09
60 PRIOR APPLICATION NUMBER: 60/081955
61 PRIOR FILING DATE: 1998-04-15
62 PRIOR APPLICATION NUMBER: 60/081817
63 PRIOR FILING DATE: 1998-04-15
64 PRIOR APPLICATION NUMBER: 60/081819
65 PRIOR FILING DATE: 1998-04-15
66 PRIOR APPLICATION NUMBER: 60/081952
67 PRIOR FILING DATE: 1998-04-15
68 PRIOR APPLICATION NUMBER: 60/081838
69 PRIOR FILING DATE: 1998-04-15
70 PRIOR APPLICATION NUMBER: 60/082568
71 PRIOR FILING DATE: 1998-04-21
72 PRIOR APPLICATION NUMBER: 60/082569
73 PRIOR FILING DATE: 1998-04-21

74 PRIOR APPLICATION NUMBER: 60/082704
75 PRIOR FILING DATE: 1998-04-22
76 PRIOR APPLICATION NUMBER: 60/082804
77 PRIOR FILING DATE: 1998-04-22
78 PRIOR APPLICATION NUMBER: 60/082700
79 PRIOR FILING DATE: 1998-04-22
80 PRIOR APPLICATION NUMBER: 60/082797
81 PRIOR FILING DATE: 1998-04-22
82 PRIOR APPLICATION NUMBER: 60/082796
83 PRIOR FILING DATE: 1998-04-23
84 PRIOR APPLICATION NUMBER: 60/083336
85 PRIOR FILING DATE: 1998-04-27
86 PRIOR APPLICATION NUMBER: 60/083322
87 PRIOR FILING DATE: 1998-04-28
88 PRIOR APPLICATION NUMBER: 60/083392
89 PRIOR FILING DATE: 1998-04-29
90 PRIOR APPLICATION NUMBER: 60/083495
91 PRIOR FILING DATE: 1998-04-29
92 PRIOR APPLICATION NUMBER: 60/083496
93 PRIOR FILING DATE: 1998-04-29
94 PRIOR APPLICATION NUMBER: 60/083499
95 PRIOR FILING DATE: 1998-04-29
96 PRIOR APPLICATION NUMBER: 60/083545
97 PRIOR FILING DATE: 1998-04-29
98 PRIOR APPLICATION NUMBER: 60/083554
99 PRIOR FILING DATE: 1998-04-29
100 PRIOR APPLICATION NUMBER: 60/083558
101 PRIOR FILING DATE: 1998-04-29
102 PRIOR APPLICATION NUMBER: 60/083559
103 PRIOR FILING DATE: 1998-04-29
104 PRIOR APPLICATION NUMBER: 60/083500
105 PRIOR FILING DATE: 1998-04-29
106 PRIOR APPLICATION NUMBER: 60/083742
107 PRIOR FILING DATE: 1998-04-30
108 PRIOR APPLICATION NUMBER: 60/084366
109 PRIOR FILING DATE: 1998-05-05
110 PRIOR APPLICATION NUMBER: 60/084414
111 PRIOR FILING DATE: 1998-05-06
112 PRIOR APPLICATION NUMBER: 60/084441
113 PRIOR FILING DATE: 1998-05-06
114 PRIOR APPLICATION NUMBER: 60/084637
115 PRIOR FILING DATE: 1998-05-07
116 PRIOR APPLICATION NUMBER: 60/084639
117 PRIOR FILING DATE: 1998-05-07
118 PRIOR APPLICATION NUMBER: 60/084640
119 PRIOR FILING DATE: 1998-05-07
120 PRIOR APPLICATION NUMBER: 60/084598
121 PRIOR FILING DATE: 1998-05-07
122 PRIOR APPLICATION NUMBER: 60/084600
123 PRIOR FILING DATE: 1998-05-07
124 PRIOR APPLICATION NUMBER: 60/084627
125 PRIOR FILING DATE: 1998-05-07
126 PRIOR APPLICATION NUMBER: 60/084643
127 PRIOR FILING DATE: 1998-05-07
128 PRIOR APPLICATION NUMBER: 60/085339
129 PRIOR FILING DATE: 1998-05-13
130 PRIOR APPLICATION NUMBER: 60/085338
131 PRIOR FILING DATE: 1998-05-13
132 PRIOR APPLICATION NUMBER: 60/085323
133 PRIOR FILING DATE: 1998-05-13
134 PRIOR APPLICATION NUMBER: 60/085582
135 PRIOR FILING DATE: 1998-05-15
136 PRIOR APPLICATION NUMBER: 60/085700
137 PRIOR FILING DATE: 1998-05-15
138 PRIOR APPLICATION NUMBER: 60/085689
139 PRIOR FILING DATE: 1998-05-15
140 PRIOR APPLICATION NUMBER: 60/085579
141 PRIOR FILING DATE: 1998-05-15
142 PRIOR APPLICATION NUMBER: 60/085580
143 PRIOR FILING DATE: 1998-05-15
144 PRIOR APPLICATION NUMBER: 60/085573
145 PRIOR FILING DATE: 1998-05-15
146 PRIOR APPLICATION NUMBER: 60/085704

```
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match      99.2%; Score 1472; DB 10; Length 277;
Best local Similarity 99.3%; Pred. No. 1.4e-137;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

y 1 MNGFASLLRRNQFILLVFLFQIQSLGLDIDSRPTAEVCATHTISPGPKGDDGKGDPE 60
b 1 MNGFASLLRRNQFILLVFLFQIQSLGLDIDSRPTAEVCATHTISPGPKGDDGKGDPE 60

y 61 EGKHGKVGVRGPKIGKEIGELMDGDRNIGKTGPIGKKDKGKGLLGIPIGKGAAGTVC 120
b 61 EGKHGKVGVRGPKIGKEIGELMDGDRNIGKTGPIGKKDKGKGLLGIPIGKGAAGTVC 120

y 121 CGYRKFPVGGDLSIARLKTSMKFPVKNVIAGIRETEKEFYIIVQBEKNYRESLTHCRIRG 180
b 121 CGYRKFPVGGDLSIARLKTSMKFPVKNVIAGIRETEKEFYIIVQBEKNYRESLTHCRIRG 180

y 181 GMLAMPKDEAANTLIADYVAKSGFFRFFVIGVNDLEREGQYMTDNTPLQYNSNWNNEGEPS 240
b 181 GMLAMPKDEAANTLIADYVAKSGFFRFFVIGVNDLEREGQYMTDNTPLQYNSNWNNEGEPS 240

y 241 DPYGHEDCVEMLSGRWNTDTECHLTWYFVCEFTKXKK 277
b 241 DPYGHEDCVEMLSGRWNTDTECHLTWYFVCEFTKXKK 277

RESULT 11
JS-09-999-833A-97
: Sequence 97, Application US/09999833A
: Publication No. US20030054405A1
: GENERAL INFORMATION:
: APPLICANT: Ashkenazi, Avi
: APPLICANT: Baker Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Deanoyers, Luc
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleon
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gertszen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, J. Christopher
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth J.
: APPLICANT: Kljavin, Ivar J.
: APPLICANT: Kuo, Sophia S.
: APPLICANT: Napier, Mary A.
: APPLICANT: Pan, James;
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Roy, Margaret Ann
: APPLICANT: Shelton, David L.
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tunas, Daniel
: APPLICANT: Williams P. Mickey
: APPLICANT: Wood, William I.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: TITLE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: P26301C65
: CURRENT APPLICATION NUMBER: US/09/999,833A
: CURRENT FILING DATE: 2001-10-24
: PRIOR APPLICATION NUMBER: 09/918585
: PRIOR FILING DATE: 2001-07-30
: PRIOR APPLICATION NUMBER: 60/062250
: PRIOR FILING DATE: 1997-10-17
: PRIOR APPLICATION NUMBER: 60/064249
: PRIOR FILING DATE: 1997-11-03
: PRIOR APPLICATION NUMBER: 60/065311
: PRIOR FILING DATE: 1997-11-13

: PRIOR APPLICATION NUMBER: 60/066364
: PRIOR FILING DATE: 1997-11-21
: PRIOR APPLICATION NUMBER: 60/077450
: PRIOR FILING DATE: 1998-03-10
: PRIOR APPLICATION NUMBER: 60/077632
: PRIOR FILING DATE: 1998-03-11
: PRIOR APPLICATION NUMBER: 60/077641
: PRIOR FILING DATE: 1998-03-11
: PRIOR APPLICATION NUMBER: 60/077649
: PRIOR FILING DATE: 1998-03-11
: PRIOR APPLICATION NUMBER: 60/077791
: PRIOR FILING DATE: 1998-03-12
: PRIOR APPLICATION NUMBER: 60/078004
: PRIOR FILING DATE: 1998-03-13
: PRIOR APPLICATION NUMBER: 60/078886
: PRIOR FILING DATE: 1998-03-20
: PRIOR APPLICATION NUMBER: 60/078936
: PRIOR FILING DATE: 1998-03-20
: PRIOR APPLICATION NUMBER: 60/078910
: PRIOR FILING DATE: 1998-03-20
: PRIOR APPLICATION NUMBER: 60/078939
: PRIOR FILING DATE: 1998-03-20
: PRIOR APPLICATION NUMBER: 60/079294
: PRIOR FILING DATE: 1998-03-25
: PRIOR APPLICATION NUMBER: 60/079656
: PRIOR FILING DATE: 1998-03-26
: PRIOR APPLICATION NUMBER: 60/079664
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: 60/079689
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: 60/079663
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: 60/079728
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: 60/079786
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: 60/079920
: PRIOR FILING DATE: 1998-03-30
: PRIOR APPLICATION NUMBER: 60/079923
: PRIOR FILING DATE: 1998-03-30
: PRIOR APPLICATION NUMBER: 60/080105
: PRIOR FILING DATE: 1998-03-31
: PRIOR APPLICATION NUMBER: 60/080107
: PRIOR FILING DATE: 1998-03-31
: PRIOR APPLICATION NUMBER: 60/080165
: PRIOR FILING DATE: 1998-03-31
: PRIOR APPLICATION NUMBER: 60/080194
: PRIOR FILING DATE: 1998-03-31
: PRIOR APPLICATION NUMBER: 60/080327
: PRIOR FILING DATE: 1998-04-01
: PRIOR APPLICATION NUMBER: 60/080328
: PRIOR FILING DATE: 1998-04-01
: PRIOR APPLICATION NUMBER: 60/080333
: PRIOR FILING DATE: 1998-04-01
: PRIOR APPLICATION NUMBER: 60/080334
: PRIOR FILING DATE: 1998-04-01
: PRIOR APPLICATION NUMBER: 60/081070
: PRIOR FILING DATE: 1998-04-08
: PRIOR APPLICATION NUMBER: 60/081049
: PRIOR FILING DATE: 1998-04-08
: PRIOR APPLICATION NUMBER: 60/081071
: PRIOR FILING DATE: 1998-04-08
: PRIOR APPLICATION NUMBER: 60/081195
: PRIOR FILING DATE: 1998-04-08
: PRIOR APPLICATION NUMBER: 60/081203
: PRIOR FILING DATE: 1998-04-09
: PRIOR APPLICATION NUMBER: 60/081229
: PRIOR FILING DATE: 1998-04-09
: PRIOR APPLICATION NUMBER: 60/081955
: PRIOR FILING DATE: 1998-04-15
: PRIOR APPLICATION NUMBER: 60/081817
: PRIOR FILING DATE: 1998-04-15
: PRIOR APPLICATION NUMBER: 60/081819
```

;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081952
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081838
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/082568
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082569
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082704
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082804
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082700
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082797
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082796
;; PRIOR FILING DATE: 1998-04-23
;; PRIOR APPLICATION NUMBER: 60/083336
;; PRIOR FILING DATE: 1998-04-27
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/083392
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083495
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083496
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083499
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083545
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083554
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083558
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083559
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083500
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083742
;; PRIOR FILING DATE: 1998-04-30
;; PRIOR APPLICATION NUMBER: 60/084366
;; PRIOR FILING DATE: 1998-05-05
;; PRIOR APPLICATION NUMBER: 60/084414
;; PRIOR FILING DATE: 1998-05-05
;; PRIOR APPLICATION NUMBER: 60/084441
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084637
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084639
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084598
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15

;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697
Query Match 99.2%; Score 1472; DB 10; Length 277;
Best Local Similarity 99.3%; Pred. No. 1.4e-137;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 MNGFASLLRRNQFILLVFLFLLQIQSLGLDIDSRPTAEVCATHTTISPGPKGDDGEXGDPGE 60
DB 1 MNGFASLLRRNQFILLVFLFLLQIQSLGLDIDSRPTAEVCATHTTISPGPKGDDGEXGDPGE 60
QY 61 EGKKGKVGKRGPKGIKGLGDMGRNIGKTGPIGKKGDKGKGLLIGPEKKGKAGTVCDD 120
DB 61 EGKKGKVGKRGPKGIKGLGDMGRNIGKTGPIGKKGDKGKGLLIGPEKKGKAGTVCDD 120
QY 121 CGYRKKEVQGLDISIARLKTSKMFVKNVNVIAGIRETEEFYIVQEEKNYRESLTHCRIRG 180
DB 121 CGYRKKEVQGLDISIARLKTSKMFVKNVNVIAGIRETEEFYIVQEEKNYRESLTHCRIRG 180
QY 181 GMLAMPKDEAANTLIADYVAKSGFFRVFVGNVNDLREGQYMTDNTPLQNYNNWNEGEPS 240
DB 181 GMLAMPKDEAANTLIADYVAKSGFFRVFVGNVNDLREGQYMTDNTPLQNYNNWNEGEPS 240
QY 241 DPYGHEDCVELSSGRWNDECHLTWYFVCEFIKXXX 277
DB 241 DPYGHEDCVELSSGRWNDECHLTWYFVCEFIKXXX 277
RESULT 12
US-09-981-915A-97
; Sequence 97, Application US/09981915A
; Publication No. US20030054986A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin J.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC12
; CURRENT APPLICATION NUMBER: US/09/981,915A

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

	PRIOR FILING DATE: 1988-05-13	
	PRIOR APPLICATION NUMBER: 60/085338	
	PRIOR FILING DATE: 1988-05-13	
	PRIOR APPLICATION NUMBER: 60/085323	
	PRIOR FILING DATE: 1988-05-13	
	PRIOR APPLICATION NUMBER: 60/085582	
	PRIOR FILING DATE: 1988-05-15	
	PRIOR APPLICATION NUMBER: 60/085700	
	PRIOR FILING DATE: 1988-05-15	
	PRIOR APPLICATION NUMBER: 60/085689	
	PRIOR FILING DATE: 1988-05-15	
	PRIOR APPLICATION NUMBER: 60/085579	
	PRIOR FILING DATE: 1988-05-15	
	PRIOR APPLICATION NUMBER: 60/085580	
	PRIOR FILING DATE: 1988-05-15	
	PRIOR APPLICATION NUMBER: 60/085573	
	PRIOR FILING DATE: 1988-05-15	
	PRIOR APPLICATION NUMBER: 60/085704	
	PRIOR FILING DATE: 1988-05-15	
	PRIOR APPLICATION NUMBER: 60/085697	
	Query Match	
	Best Local Similarity	99.2%; Score 1472; DB 10; Length 277;
	Matches 275; Conservative	1; Mismatches 1; Indels 0; Gaps 0;
QY	1	MNGFASLRRNQVFILLVLFILOIQSGLDSDSPTAEVCAETHISPGPKGDDGEKGDFGE 60
DB	1	MNGFASLRRNQVFILLVLFLFILOIQSGLDSDSPTAEVCAETHISPGPKGDDGEKGDFGE 60
QY	61	EKGHGKVRMGPKGIKGBLGDMGRGNIGKTGPICKKKDGKEKGLGIPGEKAGTVCD 120
DB	61	EKGHGKVRMGPKGIKGBLGDMGDGNIKTGPICKKKDGKEKGLGIPGEKAGTVCD 120
QY	121	CGRYRFVGOLDISARUKTSMKFVNVIAGIRETEKFFYIVQEKNYRESLTHCRIRG 180
DB	121	CGRYRFVGOLDISARUKTSMKFVNVIAGIRETEKFFYIVQEKNYRESLTHCRIRG 180
QY	181	GMLAMPKDEAANTLIADYVAKSGFPRVFGVNDLEREGQTMFTDNTPLQNSNNWNEGPS 240
DB	181	GMLAMPKDEAANTLIADYVAKSGFPRVFGVNDLEREGQTMSTDTPLQNSNNWNEGPS 240
QY	241	DYPGHEDCVELMSSGRWNDDTECHLTMYFVCEFIKXXX 277
DB	241	DYPGHEDCVELMSSGRWNDDTECHLTMYFVCEFIKXXX 277
	RESULT 13	
	US-09-978-824-97	
	Sequence 97, Application US/09978824	
	Publication No. US20030055216A1	
	GENERAL INFORMATION:	
	APPLICANT: Ashkenazi, Avi	
	APPLICANT: Baker Kevin P.	
	APPLICANT: Botstein, David	
	APPLICANT: Desnoyers, Luc	
	APPLICANT: Eaton, Dan	
	APPLICANT: Ferrara, Napoleon	
	APPLICANT: Filvaroff, Ellen	
	APPLICANT: Fong, Sherman	
	APPLICANT: Gao, Wei-Qiang	
	APPLICANT: Gerber, Hanspeter	
	APPLICANT: Gerritsen, Mary E.	
	APPLICANT: Goddard, Audrey	
	APPLICANT: Godowski, Paul J.	
	APPLICANT: Grimaldi, J. Christopher	
	APPLICANT: Gurney, Austin L.	
	APPLICANT: Hillan, Kenneth J.	
	APPLICANT: Kljavin, Ivar J.	
	APPLICANT: Kuo, Sophia S.	
	APPLICANT: Napier, Mary A.	
	APPLICANT: Pan, James;	
	APPLICANT: Paoni, Nicholas F.	
	APPLICANT: Roy, Margaret Ann	

PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07

PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 99.2%; Score 1472; DB 10; Length 277;
Best Local Similarity 99.3%; Pred. No. 1.4e-137;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MNGFASLLRRNQFILLVFLIQSLGLDIDSDPTAEVCATHIISPGKGDGCEKGDPE 60
DB 1 MNGFASLLRRNQFILLVFLIQSLGLDIDSDPTAEVCATHIISPGKGDGCEKGDPE 60
QY 61 EGKHKVGRMGPKGKIGELGDMGDRGNIGTKTGPIGKKGKGLLGIPEEKKAGTVC 120
DB 61 EGKHKVGRMGPKGKIGELGDMGDRGNIGTKTGPIGKKGKGLLGIPEEKKAGTVC 120
QY 121 CORYKRVGQLDISIARKTSMKFKVKNVIAGIRETEKFFYIVQEEKKNYESLTHCRIRG 180
DB 121 CORYKRVGQLDISIARKTSMKFKVKNVIAGIRETEKFFYIVQEEKKNYESLTHCRIRG 180
QY 181 GMLAMPKDEAANTLIADYVAKSGFFRVFIGVNDLREGQYMFDTNTPLOYSNNNEGPS 240
DB 181 GMLAMPKDEAANTLIADYVAKSGFFRVFIGVNDLREGQYMFDTNTPLOYSNNNEGPS 240
QY 241 DPYGHDCVEMLSGRWNTDTECHLTMYFVCEFFIKKK 277
DB 241 DPYGHDCVEMLSGRWNTDTECHLTMYFVCEFFIKKK 277

RESULT 14
US-09-918-585A-97
; Sequence 97, Application US/09918585A
; Publication No. US20030060406A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Par, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630F1C1
CURRENT APPLICATION NUMBER: US/09/918,585A
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/065364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441

PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085659
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086023

Query Match 99.2%; Score 1472; DB 10; Length 277;
Best Local Similarity 99.3%; Pred. No. 1.4e-137;
Matches 275; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

2y 1 MNGFASLLRNQFLLVFLLOQLDLSRPTAEVCATHTISPGKDDGEGDPE 60
db 1 MNGFASLLRNQFLLVFLLOQLDLSRPTAEVCATHTISPGKDDGEGDPE 60

2y 61 EGKKGKVRGMPKIGKELGDMGDRGNIGKTGPIGKKGDKGKGLLGIPEKKGAGTVCD 120
db 61 EGKKGKVRGMPKIGKELGDMGDRGNIGKTGPIGKKGDKGKGLLGIPEKKGAGTVCD 120

2y 121 CGYRKFGVQLDISIARLKTSMKFVKVNIAGIRETEKPYIIOEEKNYRESLTHCRING 180
db 121 CGYRKFGVQLDISIARLKTSMKFVKVNIAGIRETEKPYIIOEEKNYRESLTHCRING 180

2y 181 GMLAMPDEAANTLIADYVAKSGFFRFVIGVNDLREGQVMTDNTPLQYNSNNWGEPS 240
db 181 GMLAMPDEAANTLIADYVAKSGFFRFVIGVNDLREGQVMTDNTPLQYNSNNWGEPS 240

2y 241 DPYGHEDCVMELSSGRWNTDTECHLTMYFVCEFTKXKK 277
db 241 DPYGHEDCVMELSSGRWNTDTECHLTMYFVCEFTKXKK 277

RESULT 15
US-09-978-423A-97
; Sequence 97, Application US/09978423A
; Publication No. US20030069178A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuc, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ACIDS Encoding the Same
FILE REFERENCE: P2630PIC21
CURRENT FILING DATE: 2002-05-16
CURRENT APPLICATION NUMBER: US/09/978,423A
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079556
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920

;; PRIOR FILING DATE: 1998-03-30
;; PRIOR APPLICATION NUMBER: 60/079923
;; PRIOR FILING DATE: 1998-03-30
;; PRIOR APPLICATION NUMBER: 60/080105
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080107
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080165
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080194
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080327
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080328
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080333
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080334
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/081070
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081049
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081071
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081195
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081203
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081229
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081955
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081817
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081819
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081952
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081838
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/082568
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082569
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082704
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082804
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082700
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082797
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082796
;; PRIOR FILING DATE: 1998-04-23
;; PRIOR APPLICATION NUMBER: 60/083336
;; PRIOR FILING DATE: 1998-04-27
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/083392
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083495
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083496
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083499
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083545
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083554
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083558
;; PRIOR FILING DATE: 1998-04-29

;; PRIOR APPLICATION NUMBER: 60/083559
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083500
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083742
;; PRIOR FILING DATE: 1998-04-30
;; PRIOR APPLICATION NUMBER: 60/084366
;; PRIOR FILING DATE: 1998-05-05
;; PRIOR APPLICATION NUMBER: 60/084414
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084441
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084637
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084639
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084598
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 99.2%; Score 1472; DB 10; Length 277;

Best Local Similarity 99.3%; Pred. No. 1.4e-137; Indels 0; Gaps 0;
Matches 275; Conservative 1; Mismatches 1;

QY 1 MNGFASLLRRNQFILLVLLQIOSLGLDIDSRTAEVCATHTISPGPKDDGKGDGPE 60
DB 1 MNGFASLLRRNQFILLVLLQIOSLGLDIDSRTAEVCATHTISPGPKDDGKGDGPE 60
QY 61 EGKHGKVGMRGPKGIGKELGDMGRNIGKTGPIGKGDGKGLLIGPEKKGAGTVCD 120
DB 61 EGKHGKVGMRGPKGIGKELGDMGRNIGKTGPIGKGDGKGLLIGPEKKGAGTVCD 120
QY 121 CGYRKFKVQGLDISIARLKTSMKFVNVIAGIRETEKFFYIVQEEKNYRESLTHCSIRG 180
DB 121 CGYRKFKVQGLDISIARLKTSMKFVNVIAGIRETEKFFYIVQEEKNYRESLTHCSIRG 180
QY 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLEREGQYMTDNTPLQYSNWNEGEPS 240
DB 181 GMLAMPKDEAANTLIADYVAKSGFRFVIGVNDLEREGQYMTDNTPLQYSNWNEGEPS 240
QY 241 DPYGHEDCVEMLSGGRWNTDECHLTMYFVCFIKKK 277
DB 241 DPYGHEDCVEMLSGGRWNTDECHLTMYFVCFIKKK 277

search completed: February 24, 2004, 02:34:23
ob time : 249 secs

```

COMMENT
FUSO YAKUHIN KOGYO KK
OS Homo sapiens (human)
PN JP 1999206377-A/1
PD 03-AUG-1999
PF 23-JAN-1998 JP 1998011281
PR
PI NOBUTAKA WAKAMIYA
PC C12N15/09,C07K14/47,C07K14/78,C12P21/00,C12N15/00 CC
Strandedness: Double;
CC Topology: Linear;
FH Key Location/Qualifiers
FT CDS 6..836.

FEATURES
source
1..1595
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 100.0%; Score 1595; DB 6; Length 1595;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1595; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CAGCAATGAATGGCTTGCATCCCTGGCTCGAAGAAACCAATTTATCCCTCGTACTAT 60
DB 1 CAGCAATGAATGGCTTGCATCCCTGGCTCGAAGAAACCAATTTATCCCTCGTACTAT 60
QY 61 TTCTTTTCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCGCTCCTACCGCTGAAGTCT 120
DB 61 TTCTTTTCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCGCTCCTACCGCTGAAGTCT 120
QY 121 GTGCCACACACAAATTTCCAGGAGCCCAAGAGATGATGTGAAAGAGAGATCCAG 180
DB 121 GTGCCACACACAAATTTCCAGGAGCCCAAGAGATGATGTGAAAGAGAGATCCAG 180
QY 181 GAGAGAGGGAAGCATGGCAAGCTGGGAGCGCATGGGCGGAAAGGAATTAAGGAGAAC 240
DB 181 GAGAGAGGGAAGCATGGCAAGCTGGGAGCGCATGGGCGGAAAGGAATTAAGGAGAAC 240
QY 241 TGGGTGATATGGGAGATCGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG 300
DB 241 TGGGTGATATGGGAGATCGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG 300
QY 301 ACAAGGGGAAAGGTTGCTTGGATACCTGAGAAAGGCAAGCAGGTACTGTCT 360
DB 301 ACAAGGGGAAAGGTTGCTTGGATACCTGAGAAAGGCAAGCAGGTACTGTCT 360
QY 361 GTGATTGTGGAAGTACCGGAAATTTGTGGACAACTGGATATTAGTATTGCCCGGCTCA 420
DB 361 GTGATTGTGGAAGTACCGGAAATTTGTGGACAACTGGATATTAGTATTGCCCGGCTCA 420
QY 421 AGACATCTATGAAGTTGTCAAGATGTGATAGCAGGATAGGAACTGAAGAGAAAT 480
DB 421 AGACATCTATGAAGTTGTCAAGATGTGATAGCAGGATAGGAACTGAAGAGAAAT 480
QY 481 TCTACTACATCGTCAGAGAGAGAACTACAGGAACTCCCTAACCCACTGCAGAGATTC 540
DB 481 TCTACTACATCGTCAGAGAGAGAACTACAGGAACTCCCTAACCCACTGCAGAGATTC 540
QY 541 GGGGTGGAATGTACCCATGCCCAGGATGAAGTGCACACACTCATCGCTGACTATG 600
DB 541 GGGGTGGAATGTACCCATGCCCAGGATGAAGTGCACACACTCATCGCTGACTATG 600
QY 601 TTGCCAAGAGTGGCTCTTTTGGGTGTTCAATTTGGCGTGAATGACCTTGAAGAGGGAGAC 660
DB 601 TTGCCAAGAGTGGCTCTTTTGGGTGTTCAATTTGGCGTGAATGACCTTGAAGAGGGAGAC 660
QY 661 AGTACATGTTTCACAGAACACTCCACTGCAGAACTATAGCAACTGAATGAGGGGAAC 720
DB 661 AGTACATGTTTCACAGAACACTCCACTGCAGAACTATAGCAACTGAATGAGGGGAAC 720
QY 721 CCAGCGACCCCTATGCTATGAGGATCTGTGGAGATCTGTGAGCTTGGCAGATGGAATG 780
DB 721 CCAGCGACCCCTATGCTATGAGGATCTGTGGAGATCTGTGAGCTTGGCAGATGGAATG 780

```

```

RESULT 2
AB002631
LOCUS Homo sapiens mRNA for collectin 34, complete cds.
DEFINITION Homo sapiens mRNA for collectin 34, complete cds.
ACCESSION AB002631
VERSION AB002631.1 GI:5162874
KEYWORDS collectin 34.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (sites)
Ohtani,K., Suzuki,Y., Eda,S., Kawai,T., Kase,T., Yamazaki,H.,
Keshi,H., Sakai,Y., Fukuoh,A., Sakamoto,T. and Wakamiya,N.

```

TITLE Molecular cloning of a novel human collectin from liver (CL-L1)
J. Biol. Chem. 274 (19), 13681-13689 (1999)
MEDLINE 99240768
PUBMED 10224141
REFERENCE 2 (bases 1 to 1594)
AUTHORS Ohtani, K.
TITLE Direct Submission
JOURNAL Submitted (04-APR-1997) Katsuki Ohtani, Osaka Prefectural Institute
of Public Health, Department of Pathology; 3-69, Nakamichi 1-chome
Higashinari-ku, Osaka, Osaka 537, Japan
(E-mail:suzuk@iph.pref.osaka.jp, Tel:+81-6-972-1321,
Fax:+81-6-972-0772)

FEATURES

source

1..1594
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
6..839

CDS

/codon_start=1
/product="collectin 34"
/protein_id="BAA81747.1"
/db_xref="GI:5162875"
/translation="MNGFASLLRNQFILLVLLQISLGLDIDSRPTAEVCATHI
SFGPKDDGEKDPGEKHKVGRMGKIGSELGMDGRNIGKTGPIGKGDKE
KGLGIPGKKGAGTVCDCGRYKRVGGLDISIARLTKSMKPVNFIQRETEPKY
YIVQEKYRESLTCIRGGLAMPKDEAAANTLIADYVAKSGFPRVFIGVNDLEK
QNMFTDNTPLQYNNWNEGSPDPYGHEDCVLEMLSSGRWNTDECHLTMYVCFIKK
K"
polya_signal 1037..1041

RIGIN

Query Match 99.9%; Score 1594; DB 9; Length 1594;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1594; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Y 1 CAGCAATGAATGCTTTGCATCCTTGTCTCGAAGAACCAATTTATCTCCTCGTACTAT 60
b 1 CAGCAATGAATGCTTTGCATCCTTGTCTCGAAGAACCAATTTATCTCCTCGTACTAT 60
Y 61 TTTCTTTGCAATTCAGAGTCGTGGTCTGGATATTGATAGCGTCTCAACCGTGAAGTCT 120
b 61 TTTCTTTGCAATTCAGAGTCGTGGTCTGGATATTGATAGCGTCTCAACCGTGAAGTCT 120
Y 121 GTGCCACACACAAATTTCCACAGACCCCAAGGAGATGATGTCGAAAGGAGATCCAG 180
b 121 GTGCCACACACAAATTTCCACAGACCCCAAGGAGATGATGTCGAAAGGAGATCCAG 180
Y 181 GAGAGAGGGAAGCATGTCGCAAGTGGACGCGATGGGGCCGAAAGGAATTAAGGAGAAC 240
b 181 GAGAGAGGGAAGCATGTCGCAAGTGGACGCGATGGGGCCGAAAGGAATTAAGGAGAAC 240
Y 241 TGGGTGATATGGAGATCGGGCAATATTGGCAAGCTGGGCCCATTTGGGAAGAGGGTG 300
b 241 TGGGTGATATGGAGATCGGGCAATATTGGCAAGCTGGGCCCATTTGGGAAGAGGGTG 300
Y 301 ACAAGGGGGAAGAGTTTGTGTAATACCTGGAGAAAAGGCAAGCAGGTACTGTCT 360
b 301 ACAAGGGGGAAGAGTTTGTGTAATACCTGGAGAAAAGGCAAGCAGGTACTGTCT 360
Y 361 GTGATTTGGAGATACCGGAATTTTGTGGCAACTGGATATTAGTATTCGCCGGTCA 420
b 361 GTGATTTGGAGATACCGGAATTTTGTGGCAACTGGATATTAGTATTCGCCGGTCA 420
Y 421 AGACATCTATGAATTTGCAAGATTTGATAGCAGGATTTAGGGAACCTCAAGAGAAAT 480
b 421 AGACATCTATGAATTTGCAAGATTTGATAGCAGGATTTAGGGAACCTCAAGAGAAAT 480
Y 481 TCTACTACATCGTGCAGGAAGAGAACTACAGGGAATTCCTAACCCATCGCAGGATTC 540
b 481 TCTACTACATCGTGCAGGAAGAGAACTACAGGGAATTCCTAACCCATCGCAGGATTC 540
Y 541 GGGGTGGAATGCTAGCCATGCCAGGATGAGCTGCGCAACACATCTATCGCTGACTATG 600

RESULT 3
AC080033

541 GGGGTGGAATGCTAGCCATGCCAAGATGAGCTGCCAACAACACTCATCGCTGACTATG 600
601 TTGCCAAGAGTGGCTTCTTTTCGGGTGTTCAATTCGGCTGAATGACCTTGAAGAGGAGGAC 660
601 TTGCCAAGAGTGGCTTCTTTTCGGGTGTTCAATTCGGCTGAATGACCTTGAAGAGGAGGAC 660
661 AGTACATGTTTACAGACAACACTCCACTCGAGAACTATAGCAACTGGAATGAGGGGGAAC 720
661 AGTACATGTTTACAGACAACACTCCACTCGAGAACTATAGCAACTGGAATGAGGGGGAAC 720
721 CCAGCGACCCCTATGGTCAATGAGCACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
721 CCAGCGACCCCTATGGTCAATGAGCACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
781 ACACAGAGTGGCACTTACCATGTACTTCTGCTGAGTTTCATCAAGAAAGAAAGTAAC 840
781 ACACAGAGTGGCACTTACCATGTACTTCTGCTGAGTTTCATCAAGAAAGAAAGTAAC 840
841 TTCCCTCATCTCTAGCTATTTGCTATTTTCTGTGACCGTCAATTCAGTTATGTTATCCA 900
841 TTCCCTCATCTCTAGCTATTTGCTATTTTCTGTGACCGTCAATTCAGTTATGTTATCCA 900
901 TCCCTTTTCTCTGATTTGCTACTACATTTGATCTGAGTCAACATAGCTAGAAATGCTAAA 960
901 TCCCTTTTCTCTGATTTGCTACTACATTTGATCTGAGTCAACATAGCTAGAAATGCTAAA 960
961 CTGAGGTATGGAGCGCTCCATCATCATGCTCTTTTGTGATGATTTTCATATTTTACACAT 1020
961 CTGAGGTATGGAGCGCTCCATCATCATGCTCTTTTGTGATGATTTTCATATTTTACACAT 1020
1021 GGTATGTTTATGACCAATTAATCGCAGAGTTTACATGGGTCTTGAGAGAGAAATTTAAT 1080
1021 GGTATGTTTATGACCAATTAATCGCAGAGTTTACATGGGTCTTGAGAGAGAAATTTAAT 1080
1081 ACTAATGTCACAGAGATGATGTTGTTGTTCTATATGTCAAATGAGTTTCTCTTGGTATT 1140
1081 ACTAATGTCACAGAGATGATGTTGTTGTTCTATATGTCAAATGAGTTTCTCTTGGTATT 1140
1141 TGCTTACCATCTCTCCCTAGAGCACTCTGTGTTCTATCCAGTGAGTAATTTCCAGTTT 1200
1141 TGCTTACCATCTCTCCCTAGAGCACTCTGTGTTCTATCCAGTGAGTAATTTCCAGTTT 1200
1201 ACTGTGATGATTAGGAAGTGTGTTGATGTTAGGCTAACCTGCCCTGGCCCAAGCCAG 1260
1201 ACTGTGATGATTAGGAAGTGTGTTGATGTTAGGCTAACCTGCCCTGGCCCAAGCCAG 1260
1261 ACATGTACAAGGGCTTTCTGTGAGCAATGATAAGATCTTTGAATPCCAAGATGCCAGATG 1320
1261 ACATGTACAAGGGCTTTCTGTGAGCAATGATAAGATCTTTGAATPCCAAGATGCCAGATG 1320
1321 TTTTACCAGTCAACCCCTATGGCCATGGCTATATCTTGGAGTTCTCCTTGTGGCAGAGA 1380
1321 TTTTACCAGTCAACCCCTATGGCCATGGCTATATCTTGGAGTTCTCCTTGTGGCAGAGA 1380
1381 CATAGAAATGCTTTTAAACCCCAAGCCTTTATATGGGGACTTCTAGCTTTTGTGTGTTT 1440
1381 CATAGAAATGCTTTTAAACCCCAAGCCTTTATATGGGGACTTCTAGCTTTTGTGTGTTT 1440
1441 CAGACCATGTGGAATGATAAATCTCTTTTGTGCTCTGATCTATCGATTTCACTAACA 1500
1441 CAGACCATGTGGAATGATAAATCTCTTTTGTGCTCTGATCTATCGATTTCACTAACA 1500
1501 TATACCAAGTAGGTGCTTTGAACCCCTTTCTGTAGGCTCACACCTTAATCTCAGGCCCT 1560
1501 TATACCAAGTAGGTGCTTTGAACCCCTTTCTGTAGGCTCACACCTTAATCTCAGGCCCT 1560
1561 ATATAGTCACTTTGATTTTAAAGAAAACGGAGC 1594
1561 ATATAGTCACTTTGATTTTAAAGAAAACGGAGC 1594

LOCUS AC080033 141262 bp DNA linear PRI 20-FEB-2002
 DEFINITION Homo sapiens chromosome 8, clone RP11-885J16, complete sequence.
 ACCESSION AC080033
 VERSION HTG.
 KEYWORDS AC080033.10 GI:118767530
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 141262)
 Birren,B., Linton,L., Nusbaum,C. and Lander,E.
 TITLE Homo sapiens chromosome 8, clone RP11-885J16
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 141262)
 AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,
 Anderson,S., Barna,N., Bastien,V., Beda,F., Boguslavsky,L.,
 Boukhgalter,B., Brown,A., Burkett,G., Campopiano,A., Castle,A.,
 Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cooke,P.,
 DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Ferreira,P.,
 FitzHugh,W., Gage,D., Galagan,J., Gardyna,S., Ginde,S., Goyette,M.,
 Graham,L., Grand-Pierre,N., Hagos,B., Heaford,A., Horton,L.,
 Iliev,I., Johnson,R., Jones,C., Kann,L., Karatas,A., LaRocque,K.,
 Lamazares,R., Landers,T., Lehoczy,J., Levine,R., Lieu,C., Liu,G.,
 Macdonald,P., Marquis,N., McCarthy,M., McEwan,P., McKernan,K.,
 McPeeters,R., Meldrim,J., Meneus,L., Mihova,T., Mlenga,V.,
 Morrow,J., Murphy,T., Naylor,J., Norman,C.H., O'Connor,T.,
 O'Donnell,P., O'Neill,D., Oliver,J., O'Neill,P., Peterson,K.,
 Pierre,N., Pisani,C., Pollara,V., Raymond,C., Rieback,M., Riley,R.,
 Rogov,P., Rothman,D., Roy,A., Santos,R., Schauer,S., Severy,P.,
 Sounez,C., Spencer,B., Stange-Thomann,N., Stojanovic,N.,
 Strauss,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J.,
 Tirrell,A., Travers,M., Trigilio,J., Vassiliev,H., Viel,R., Vo,A.,
 Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J.,
 Zimmer,A. and Zody,M.
 Direct Submission
 TITLE Submitted (23-SEP-2000) Whitehead Institute/MIT Center for Genome
 JOURNAL Research, 320 Charles Street, Cambridge, MA 02141, USA
 REFERENCE 3 (bases 1 to 141262)
 AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N.,
 Anderson,S., Barna,N., Bastien,V., Boguslavsky,L., Boukhgalter,B.,
 Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B.,
 Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A.,
 Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S.,
 Ferreira,P., FitzHugh,W., Gage,D., Galagan,J., Gardyna,S.,
 Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N.,
 Hagos,B., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C.,
 Kamat,A., Karatas,A., Kells,C., LaRocque,K., Lamazares,R.,
 Landers,T., Lehoczy,J., Levine,R., Liu,G., Maclean,C.,
 Macdonald,P., Major,J., Marquis,N., Matthews,C., McCarthy,M.,
 McEwan,P., McKernan,K., Meldrim,J., Meneus,L., Mihova,T.,
 Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C.,
 Norman,C.H., O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,J.,
 Peterson,K., Phunkhang,P., Pierre,N., Pollara,V., Raymond,C.,
 Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J.,
 Rosatti,M., Roy,A., Santos,R., Schauer,S., Schupback,R., Seaman,S.,
 Severy,P., Spencer,B., Stange-Thomann,N., Stojanovic,N.,
 Strauss,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J.,
 Topham,K., Travers,M., Travis,N., Trigilio,J., Vassiliev,H.,
 Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G.,
 Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
 Direct Submission
 TITLE Submitted (15-FEB-2002) Whitehead Institute/MIT Center for Genome
 JOURNAL Research, 320 Charles Street, Cambridge, MA 02141, USA
 REFERENCE 4 (bases 1 to 141262)
 AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Ali,A., Allen,N.,
 Anderson,S., Barna,N., Bastien,V., Boguslavsky,L., Boukhgalter,B.,
 Brown,A., Camarata,J., Campopiano,A., Chang,J., Chazaro,B.,
 Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cook,A.,
 Cooke,P., DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Faro,S.,
 Ferreira,P., FitzHugh,W., Gage,D., Galagan,J., Gardyna,S.,
 Ginde,S., Gord,S., Goyette,M., Graham,L., Grand-Pierre,N.,
 Hagos,B., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C.,
 Kamat,A., Karatas,A., Kells,C., LaRocque,K., Lamazares,R.,

Landers,T., Lehoczy,J., Levine,R., Liu,G., Maclean,C.,
 Macdonald,P., Major,J., Marquis,N., Matthews,C., McCarthy,M.,
 McEwan,P., McKernan,K., Meldrim,J., Meneus,L., Mihova,T.,
 Mlenga,V., Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C.,
 Norman,C.H., O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,J.,
 Peterson,K., Phunkhang,P., Pierre,N., Pollara,V., Raymond,C.,
 Retta,R., Rieback,M., Riley,R., Rise,C., Rogov,P., Roman,J.,
 Rosatti,M., Roy,A., Santos,R., Schauer,S., Schupback,R., Seaman,S.,
 Severy,P., Spencer,B., Stange-Thomann,N., Stojanovic,N.,
 Strauss,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J.,
 Topham,K., Travers,M., Travis,N., Trigilio,J., Vassiliev,H.,
 Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G.,
 Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
 Direct Submission
 TITLE Submitted (20-FEB-2002) Whitehead Institute/MIT Center for Genome
 JOURNAL Research, 320 Charles Street, Cambridge, MA 02141, USA
 COMMENT On Feb 20, 2002 this sequence version replaced gi:118653568.
 All repeats were identified using RepeatMasker:
 Smit, A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html
 ----- Genome Center
 Center: Whitehead Institute/ MIT Center for Genome Research
 Center code: WIBR
 Web site: http://www-seq.wi.mit.edu
 Contact: sequence_submissions@genome.wi.mit.edu
 ----- Project Information
 Center project name: L10939
 Center clone name: 895_J_16
 ----- Location/Qualifiers
 1. 141262
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"
 /chromosome="8"
 /map="8"
 /clone="RP11-885J16"
 /clone_lib="RPC1-11 Human Male BAC"
 31..35
 /notes="<30 qual SNGL region"
 76..82
 /notes="<30 qual SNGL region"
 88..297
 /rpt_family="MIR"
 113..120
 /notes="<30 qual SNGL region"
 1024..1029
 /notes="<30 qual SNGL region"
 1078..1082
 /notes="<30 qual SNGL region"
 1428..1557
 /rpt_family="MIR"
 1470..1476
 /notes="<30 qual SNGL region"
 1500..1507
 /notes="<30 qual SNGL region"
 1519..1528
 /notes="<30 qual SNGL region"
 1547..1556
 /notes="<30 qual SNGL region"
 1585..1579
 /notes="<30 qual SNGL region"
 1643..1648
 /notes="<30 qual SNGL region"
 1656..1661
 /notes="<30 qual SNGL region"
 1674..1678
 /notes="<30 qual SNGL region"
 1690..1694
 /notes="<30 qual SNGL region"
 1966..2116
 /rpt_family="MIR"
 3661..3813
 /rpt_family="MIR"
 repeat_region

repeat_region	/rpt_family="WIR"	56115	TTCAATGGCGTGAATGACCTTTGAAAGGGAGGACAGTACATGTTCCACAGACAACACTCCA	56174
repeat_region	complement(3941..4471)			
repeat_region	/rpt_family="MER44D"	587	CTGCAGAACTATAGCAACTGGAATCAGGGGGAACCCAGCGACCCCTATGGTCATCAGGAC	746
repeat_region	5980..6358			
repeat_region	/rpt_family="L2"	56175	CTCAGAACTATAGCAACTGGAATCAGGGGGAACCCAGCGACCCCTATGGTCATCAGGAC	56234
repeat_region	6439..6500			
repeat_region	/rpt_family="MLT1J"	747	TGTGTGGAGATGCTGAGCTCTCGCAGATGGAATGACACAGAGTGCCATCTTACCAATGAC	806
repeat_region	6584..6694			
repeat_region	/rpt_family="MLT1J"	56235	TGTGTGGAGATGCTGAGCTCTCGCAGATGGAATGACACAGAGTGCCATCTTACCAATGAC	56294
repeat_region	6950..7186			
repeat_region	/rpt_family="L2"	807	TTTGTCTGTGAGTTTCATCAAGAGAAAGTAACCTCCCTCATCTCTAGCTATTTGCTATT	866
repeat_region	7187..7549			
repeat_region	/rpt_family="THE1C"	56295	TTTGTCTGTGAGTTTCATCAAGAGAAAGTAACCTCCCTCATCTCTAGCTATTTGCTATT	56354
unsure	7217..7221			
repeat_region	/notes="<30 qual SNGL region"	867	TTCTGTGACCGCTCATTACAGTTATTGTTTATCCATCCCTTTTTTCTCTGATTGTACTACAT	926
repeat_region	7550..7821			
repeat_region	/rpt_family="L2"	56355	TTCTGTGACCGCTCATTACAGTTATTGTTTATCCATCCCTTTTTTCTCTGATTGTACTACAT	56414
repeat_region	complement(8399..9237)			
repeat_region	/rpt_family="L1ME1"	927	TTCTGTGACCGCTCATTACAGTTATTGTTTATCCATCCCTTTTTTCTCTGATTGTACTACAT	986
repeat_region	complement(9246..9693)			
repeat_region	/rpt_family="L1ME1"	56415	TTCTGTGACCGCTCATTACAGTTATTGTTTATCCATCCCTTTTTTCTCTGATTGTACTACAT	56474
repeat_region	9899..10022			
repeat_region	/rpt_family="L1PB3"	987	GCTCTTTTGTGATGATTTTCATATTTTTCACATGCTGATGTTTATGACCCCAATACTCGC	1046
repeat_region	10245..10649			
repeat_region	/rpt_family="HAL1"	56475	GCTCTTTTGTGATGATTTTCATATTTTTCACATGCTGATGTTTATGACCCCAATACTCGC	56534
repeat_region	10921..12580			
repeat_region	/rpt_family="HAL1"	1047	CAGTTTACATGGTCTTGAGAGAGAAATTTTAACTACTAAATTTGTGCACGAGATAGTTGTT	1106
repeat_region	complement(12616..12915)			
repeat_region	/rpt_family="AluSx"	56535	CAGTTTACATGGTCTTGAGAGAGAAATTTTAACTACTAAATTTGTGCACGAGATAGTTGTT	56594
repeat_region	complement(13402..13869)			
repeat_region	/rpt_family="MLT1C"	1107	GTCCTATATGTCAAATGAGTTGTTCTCTGTTGTTTGTCTCTACCATCTCTCCCTAGAGAC	1166
repeat_region	complement(14079..14128)			
repeat_region	/rpt_family="L3"	56595	GTCCTATATGTCAAATGAGTTGTTCTCTGTTGTTTGTCTCTACCATCTCTCCCTAGAGAC	56654
repeat_region	14318..14351			
repeat_region	/rpt_family="AT rich"	1167	TCGTGTCTATCCAGTGGATTAATTTCCAGTTTACTGGTGATGATAGGAGGTTGTTG	1226
repeat_region	complement(14623..14738)			
repeat_region	/rpt_family="WIR3"	56655	TCGTGTCTATCCAGTGGATTAATTTCCAGTTTACTGGTGATGATAGGAGGTTGTTG	56714
repeat_region	14892..15130			
repeat_region	/rpt_family="WIR"	1227	ATGTTTAGGCTAACCTGCGCTGCGCCCAAGCCAGACATGTACAAGGGCTTTCTGTGACCA	1286
repeat_region	15183..15254			
repeat_region	/rpt_family="MLT1C"	56715	ATGTTTAGGCTAACCTGCGCTGCGCCCAAGCCAGACATGTACAAGGGCTTTCTGTGACCA	56774
repeat_region	15276..15710			
repeat_region	/rpt_family="MER1A"	1287	ATGATAAGATCTTTGAAATCCAAAGATGCCAGATGTTTACCAAGTCCACCCCTATGGCCAT	1346
repeat_region	15711..16021			
repeat_region	/rpt_family="AluSx"	56775	ATGATAAGATCTTTGAAATCCAAAGATGCCAGATCTTTTACCAGTCCACCCCTATGGCCAT	56834
unsure	15784..15788			
repeat_region	/notes="<30 qual SNGL region"	1347	GGCTATACCTGGAAGTTCTCTGTTGGACACAGATAGAAATGCTTTTAAACCCCAAGCT	1406
repeat_region	16022..16130			
repeat_region	/rpt_family="MER1A"	56835	GGCTATACCTGGAAGTTCTCTGTTGGACACAGATAGAAATGCTTTTAAACCCCAAGCT	56894
repeat_region	16152..16207			
repeat_region	/rpt_family="MLT1C"	1407	TTATATGGGGGACTTCTAGCTTTGTCTTTGTTTTCAGACCATGTGGAATGATAAATCTC	1466
repeat_region	19051..19128			
repeat_region	/rpt_family="AT rich"	56895	TTATATGGGGGACTTCTAGCTTTGTCTTTGTTTTCAGACCATGTGGAATGATAAATCTC	56954
repeat_region	complement(19159..19244)			
Query Match	71.6%; Score 1141.6; DB 9; Length 141262;			
Best Local Similarity	99.7%; Pred. No. 8.5e-280;			
Matches 1144; Conservative 0; Mismatches 4; Indels 0; Gaps 0;				
2Y	447 GTGATAGCAGGATAGGAACTAGAGAAATTTCTACTACATCGTGCAGAGAGAG 506			
Db	55935 GTGATAGCAGGATAGGAACTAGAGAAATTTCTACTACATCGTGCAGAGAGAG 55994			
2Y	507 AACTACAGGGAATCCCTAACCCACTCAGGATTCGGGTGGAAATGTAGCCATGCCCAAG 566			
Db	55995 AACTACAGGGAATCCCTAACCCACTCAGGATTCGGGTGGAAATGTAGCCATGCCCAAG 56054			
2Y	567 GATGAAGCTGCCACACTCATCGCTACTATGTTGCCAAGAGTGCTTCTTGGGTG 626			
Db	56055 GATGAAGCTGCCACACTCATCGCTACTATGTTGCCAAGAGTGCTTCTTGGGTG 56114			
2Y	627 TTCATTGGCGTGAATGACCTTTGAAAGGGAGGACAGTACATGTTTCACAGACAACACTCCA 686			

RESULT 4

AC023487/C

LOCUS

DEFINITION

AC023487

AC023487

182475 bp

DNA linear

HTG 26-MAR-2001

Homo sapiens chromosome 8 clone RP11-164H21, WORKING DRAFT

SEQUENCE, 3 unordered pieces.

AC023487.10 GI:13357236
HTG: HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP; HTGS_ACTIVEFIN.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
REFERENCE 1 (bases 1 to 182475)
Abola A.P., Bruno D., Conn L., Dela Rosa M., Faulkner D.,
Federspiel N., Glukhov S., Hansen N., Herman Z.S., Hyma R.,
Mao J., Komp C., Kottler S., Lam B., Marathe R., Miranda M.,
Morehouse A.J., Nguyen M., Oefner P., Palm C.J., Ramirez D.,
Southwick A.M., Webb C., Wilhelmy J., Yu S. and Davis R.W.
Unpublished
JOURNAL 2 (bases 1 to 182475)
Bruno D., Conn L., Dela Rosa M., Faulkner D., Federspiel N.,
Glukhov S., Hansen N., Hyma R., Mao J., Marathe R.,
Morehouse A.J., Oefner P., Palm C.J., Ramirez D., Wilhelmy J.,
Yu S. and Davis R.W.
Direct Submission
TITLE Submitted (14-FEB-2000) DNA Sequencing and Technology Center.
JOURNAL Stanford University, 855 California Avenue, Palo Alto, CA 94304,
USA
COMMENT On Mar 16, 2001 this sequence version replaced gi:13324778.
----- Genome Center
Center: Stanford DNA Sequencing and Technology Development
Center
Center code: SOSTDC
Web site: http://sequence-www.stanford.edu/group/human/
Contact: hum-info@sequence.stanford.edu
----- Project Information
Center project name: 844
Center clone name: RP11-164H21
----- Summary Statistics
Sequencing Vector: M13mp18; X02513; 98% of reads
Sequencing Vector: plasmid; plasmid_accession; 2% of reads
Chemistry: Dye-terminator; 0% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 180260 bases at least Q40
Consensus quality: 180441 bases at least Q30
Consensus quality: 180507 bases at least Q20
Insert size: 178614; agarose-fp
Insert size: 182275; sum-of-contigs
Quality coverage: 8.1x in Q20 bases; agarose-fp
Quality coverage: 7.9x in Q20 bases; sum-of-contigs.
* NOTE: This is a 'working draft' sequence. It currently
* consists of 3 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 42072: contig of 42072 bp in length
* 42073 42172: gap of unknown length
* 42173 109254: contig of 67082 bp in length
* 109255 109354: gap of unknown length
* 109355 182475: contig of 73121 bp in length.
Location/Qualifiers
1. .182475
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="8"
/clone="RP11-164H21"
/clone_lib="RPCI human BAC library 11"
1. .42072
/note="assembly_name:Contig9
clone end:17"
42173 109254
/note="assembly_name:Contig10"
109355 182475
/note="assembly_name:Contig11

ORIGIN
Query Match 71.6%; Score 1141.6; DB 2; Length 182475;
Best Local Similarity 99.7%; Pred. No. 8.4e-280; Indels 0; Gaps 0;
Matches 1144; Conservative 0; Mismatches 4;
QY 447 GTGATACAGGGATTAGGAACTGAAGAGAAATTTCTACTATCATCGTCAGGAAGAG 506
Db 6233 GTGATACAGGGATTAGGAACTGAAGAGAAATTTCTACTATCATCGTCAGGAAGAG 6174
QY 507 AACTACAGGAATCCCTTAACCCACTCGAGATTCGGGGTGGATCTAGCCATGCCCAAG 566
Db 6173 AACTACAGGAATCCCTTAACCCACTCGAGATTCGGGGTGGATCTAGCCATGCCCAAG 6114
QY 567 GATGAAGCTCCCAACACATCATCGCTGACTATGTTGCCAAGAGTGGCTTTTCGGGTG 626
Db 6113 GATGAAGCTCCCAACACATCATCGCTGACTATGTTGCCAAGAGTGGCTTTTCGGGTG 6054
QY 627 TTCATTGGCGTGAATGACCTTGAAGGGAGGGAGGACATGATGTTACAGACAACTCCA 686
Db 6053 TTCATTGGCGTGAATGACCTTGAAGGGAGGGAGGACATGATGTTACAGACAACTCCA 5994
QY 687 CTGCAGAACTATAGCAACTGGAATGAGGGGAAACCCAGGACCCCTTATGTCATGAGGAC 746
Db 5993 CTGCAGAACTATAGCAACTGGAATGAGGGGAAACCCAGGACCCCTTATGTCATGAGGAC 5934
QY 747 TGTGTGAGATGCTGAGCTCTGGCAGATGGAATGACAGAGTGCCATCTTACCATTGTAC 806
Db 5933 TGTGTGAGATGCTGAGCTCTGGCAGATGGAATGACAGAGTGCCATCTTACCATTGTAC 5874
QY 807 TTTCTGTGTGAGTTTCATCAAGAAGAAAAGTAACTTCCCTCATCTCTACGATTTTGTATT 866
Db 5873 TTTCTGTGTGAGTTTCATCAAGAAGAAAAGTAACTTCCCTCATCTCTACGATTTTGTATT 5814
QY 867 TTTCTGTGACCGTCATTACAGTTATTTGTTATCCATCTCTTTTCTCTGATTTGTACTACAT 926
Db 5813 TTTCTGTGACCGTCATTACAGTTATTTGTTATCCATCTCTTTTCTCTGATTTGTACTACAT 5754
QY 927 TTGATCTGAGTCAACATAGCTAGAAAATGCTAAACTGAGGTATGGAGCCCTCCATCATCAT 986
Db 5753 TTGATCTGAGTCAACATAGCTAGAAAATGCTAAACTGAGGTATGGAGCCCTCCATCATCAT 5694
QY 987 GCTCTTTTGTGATGATTTTTCATATTTTTCACACATGATGTTATTTGACCCCAATAATCCG 1046
Db 5693 GCTCTTTTGTGATGATTTTTCATATTTTTCACACATGATGTTATTTGACCCCAATAATCCG 5634
QY 1047 CAGGTTACATGGGTCTTGAGAGAGAAATTTAAATTAATTTGTCACGAGATAGTTGGTT 1106
Db 5633 CAGGTTACATGGGTCTTGAGAGAGAAATTTAAATTAATTTGTCACGAGATAGTTGGTT 5574
QY 1107 GTCTATATGTCAAAATGAGTTGTTCTCTTGGTATTTGCTTACCATCTCTCCCTAGAGCAC 1166
Db 5573 GTCTATATGTCAAAATGAGTTGTTCTCTTGGTATTTGCTTACCATCTCTCCCTAGAGCAC 5514
QY 1167 TCTGTGCTATCCCAAGTGGATAATTTCCAGTTTACTTGGTGATGATTAGGAAGTTGTTG 1226
Db 5513 TCTGTGCTATCCCAAGTGGATAATTTCCAGTTTACTTGGTGATGATTAGGAAGTTGTTG 5454
QY 1227 ATGTTAGGCTAACCTCCCTGGCCCCAAAGCCAGACATGATGATCAAGGGCTTTCTGTGAGCA 1286
Db 5453 ATGTTAGGCTAACCTCCCTGGCCCCAAAGCCAGACATGATGATCAAGGGCTTTCTGTGAGCA 5394
QY 1287 ATGATAAGATCTTTGAATCCCAAGATGCCAGATGTTTACCAGTACACACCTATGGCCAT 1346
Db 5393 ATGATAAGATCTTTGAATCCCAAGATGCCAGATGTTTACCAGTACACACCTATGGCCAT 5334
QY 1347 GGCTATACCTTGGAAAGTTTCTCTTGTGGCACAGACATAGAAATGCTTTTAAACCCCAAGCCT 1406
Db 5333 GGCTATACCTTGGAAAGTTTCTCTTGTGGCACAGACATAGAAATGCTTTTAAACCCCAAGCCT 5274
QY 1407 TTATATGGGGACCTTAGCTTGTGTTGTTTTCAGACCATGTTGAATGATGATAAATCTC 1466

```
b 5273 TTATATGGGGAGCTTCTAGCTTTGTCCTTTGTTTTCAGACCAATGTGGAAATATAAATACTC 5214
y 1467 TTTTGTGCTTCTGATCTATCGATTTTCACTAATACATATACCAAGTAGGTGCTTTGAACCCC 1526
b 5213 TTTTGTGCTTCTGATCTATCGATTTTCACTAATACATATACCAAGTAGGTGCTTTGAACCCC 5154
y 1527 TTTCTGTAGGCTCACACCTTAATCTCAGGCGCCCTATATAGTCACACTTTGATTTAAGAAA 1586
b 5153 TTTCTGTAGGCTCACACCTTAATCTCAGGCGCCCTATATAGTCACACTTTGATTTAAGAAA 5094
y 1587 AACGGAGC 1594
b 5093 AATGGAGC 5086

RESULT 5
X376032
OCUS
DEFINITION
CESSION
X376032
X376032.1 GI:19170408
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Baker,K.P., Chen,J., Desnoyers,L., Goddard,A., Godowski,P.J.,
Gurney,A.L., Pan,J., Smith,V., Watanabe,C.K., Wood,W.I. and
Zhang,Z.
SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING
THE SAME
JOURNAL
Patent: WO 0168848-A 99 20-SEP-2001;
Genentech, Inc. (US)
FEATURES
source
1. .1016
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
ORIGIN
Query Match 61.5%; Score 980.2; DB 6; Length 1016;
Best Local Similarity 99.7%; Pred. NO. 1.2e-238;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
y 1 CAGCAATGAATGCTTTGTCATCTCTCTTTCGAGAAACCAATTTATCTCTGCTACTAT 60
b 17 CAGCAATGAATGCTTTGTCATCTCTCTTTCGAGAAACCAATTTATCTCTGCTACTAT 76
y 61 TTTCTTTGCAATTCAGAGTCTGGGCTCGATATGATGATGATGATGATGATGATGATGATGAT 120
b 77 TTTCTTTGCAATTCAGAGTCTGGGCTCGATATGATGATGATGATGATGATGATGATGATGAT 136
y 121 GTGCCACACACAAATTTCCAGGAGCCCAAGGAGATGATGATGATGATGATGATGATGATGATGAT 180
b 137 GTGCCACACACAAATTTCCAGGAGCCCAAGGAGATGATGATGATGATGATGATGATGATGATGAT 196
y 181 GAGAGAGGAGAAAGCATGCGAAAGTGGGACGATGGGCGGAAAGGAATTAAGAGAGAAC 240
b 197 GAGAGAGGAGAAAGCATGCGAAAGTGGGACGATGGGCGGAAAGGAATTAAGAGAGAAC 256
y 241 TGGGTGATATGGGAGATCGGGCAATATTGGCAAGCTGGGCCCATTCGGAGAGAGGTG 300
b 257 TGGGTGATATGGGAGATCGGGCAATATTGGCAAGCTGGGCCCATTCGGAGAGAGGTG 316
y 301 ACAAGGGGAAAAAGTTTGTCTTGGAAATACCTGGGAGAAAAAGGCAAGCATGCTGTCT 360
b 317 ACAAGGGGAAAAAGTTTGTCTTGGAAATACCTGGGAGAAAAAGGCAAGCATGCTGTCT 376
y 361 GTGATTTGTGAAGTACCGGAATTTTGTGGCAACTGGATATGATGATGATGATGATGATGATGATGAT 420
b 377 GTGATTTGTGAAGTACCGGAATTTTGTGGCAACTGGATATGATGATGATGATGATGATGATGATGAT 436
```

```
QY 421 AGACATCTATGAAGTTTGTCAAGATGTGTAGCAGGATTTAGGAAACTAGAGAGAAAT 480
DB 437 AGACATCTATGAAGTTTGTCAAGATGTGTAGCAGGATTTAGGAAACTAGAGAGAAAT 496
QY 481 TTTACTATCATCTGTGAGGAGAGAACTACAGGGATCCCTAACCCACTGCGAGATTC 540
DB 497 TTTACTATCATCTGTGAGGAGAGAACTACAGGGATCCCTAACCCACTGCGAGATTC 556
QY 541 GGGGTGGAAATGTAGCCCATGCCCAAGGATGAAGTGGCCAAACACACTCATCTGCTGACTATG 600
DB 557 GGGGTGGAAATGTAGCCCATGCCCAAGGATGAAGTGGCCAAACACACTCATCTGCTGACTATG 616
QY 601 TTTGCCAAGAGTGGCTTCTTTCGGGTGTTTCATTTGGGTGAATGACCTTGAAGAGGGAGAC 660
DB 617 TTTGCCAAGAGTGGCTTCTTTCGGGTGTTTCATTTGGGTGAATGACCTTGAAGAGGGAGAC 676
QY 661 AGTACATGTTTACACAGACAACTCCACTCGAGAACTATAGCAACTGGAATGAGGGGGAAC 720
DB 677 AGTACATGTTTACACAGACAACTCCACTCGAGAACTATAGCAACTGGAATGAGGGGGAAC 736
QY 721 CCAGCGACCCCTATGTCATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
DB 737 CCAGCGACCCCTATGTCATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCCTCTTACCATGTACTTTGCTGTGTGAGTTTCATCAAGAGAAAGAAAGTAAC 840
DB 797 ACACAGAGTGCCTCTTACCATGTACTTTGCTGTGTGAGTTTCATCAAGAGAAAGAAAGTAAC 856
QY 841 TTTCCCTATPCTTACCTATTTGCTATTTTCTGTGTGACCGTCAATACAGTTATTTGTTATCCA 900
DB 857 TTTCCCTATPCTTACCTATTTGCTATTTTCTGTGTGACCGTCAATACAGTTATTTGTTATCCA 916
QY 901 TCTTTTCTTCTGATTTGCTACTTACATTTGATCTGAGTCAACATAGCTAGAAAGTCTAAA 960
DB 917 TCTTTTCTTCTGATTTGCTACTTACATTTGATCTGAGTCAACATAGCTAGAAAGTCTAAA 976
QY 961 CTGAGTATGAGGCTCCATCATCA 985
DB 977 CTGAGTATGAGGCTCCATCATCA 1001

RESULT 6
AY359038 1016 bp mRNA linear PRI 03-OCT-2003
LOCUS Homo sapiens clone DNA50980 COLEC10 (UNQ366) mRNA, complete cds.
DEFINITION
AY359038
ACCESSION
AY359038.1 GI:37183193
VERSION
FLI_CDNA.
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 1016)
AUTHORS
Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,
Chen,J., Chow,B., Chui,C., Crowley,C., Curreli,B., Deuel,B.,
Dewald,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Hass,P.E.,
Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S.,
Lee,J., Lewis,L., Liao,D., Mark,M., Robbie,E., Sanchez,C.,
Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,J., Smith,V.,
Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Wieand,D., Woods,K.,
Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
Goddard,A., Wood,W.I. and Godowski,P.
The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
Effort to Identify Novel Human Secreted and Transmembrane Proteins:
A Bioinformatics Assessment
Genome Res. 13 (10), 2265-2270 (2003)
PUBMED
12975309
REFERENCE
2 (bases 1 to 1016)
AUTHORS
Clark,H.F.
DIRECT SUBMISSION
Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
Inc., 1 DNA Way, South San Francisco, CA 94080, USA
LOCATION/QUALIFIERS
```

```

source
1. .1016
/organism="Homo sapiens"
/mol_type="mrna"
/db_xref="taxon:9606"
/glclone="DNAS0980"
1. .1016
/locus_tag="UNQ366"
22. .855
/locus_tag="UNQ366"
/note="PRO702"
/codon_start=1
/product="COLEC10"
/protein_id="AAQ89397.1"
/db_xref="GI:37183194"
/translation="MNGFASLRNRNPILLVFLIQISGLDIDSRPTAEVCATHTI
SPGKDDGKGDGPEEGKGGKVRMPGKIGELGMDGQNTGKTGPIGKGDKGGE
KGLLIGPEEGKAGATVDCGKYRFPVQLDISIARKTSMKPVKNLAGIRVTEERFY
YVQEEKNRESLTNCRIRGGMAMPKDEAAANTLADYVAKSGPFRVFIGYNLDLREG
QYMS'TDNTPLQNSWNNEGESDPYGHEDCVMLSSGRWNTDTECHLTWYFCVFIIKK
K"

```

ORIGIN

Query Match	61.5%	Score 980.2	DB 9	Length 1016
Best Local Similarity	99.7%	Pred. No. 1.2e-238		
Matches 982	Conservative 0	Mismatches 0	Indels 0	Gaps 0
Qy	1	CAGCAATGAATGGCTTTTGTCATCTTGTCTCGAAGAAACCAATTTATCTCTCTGGTACTAT	60	
Db	17	CAGCAATGAATGGCTTTTGCATCTTGTCTTGAAGAAACCAATTTATCTCTCTGGTACTAT	76	
Qy	61	TTCTTTTGCAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCTTACCGTGTGAAGTCT	120	
Db	77	TTCTTTTGCAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCTTACCGGTGAAGTCT	136	
Qy	121	GTGCCACACACACAAATTTCCACGAGCCCAAAGAGATGATGGTGAAGAAAGAGATCCAG	180	
Db	137	GTGCCACACACACAAATTTCCACGAGCCCAAAGAGATGATGGTGAAGAAAGAGATCCAG	196	
Qy	181	GAGAGAGGGAAAGCATGGCAAGTGGGACGCTTGGGGCCGAAAGGAATTAAGAGGAAC	240	
Db	197	GAGAGAGGGAAAGCATGGCAAGTGGGAGCGCATGGGGCCGAAAGGAATTAAGAGGAAC	256	
Qy	241	TGGGTGATATGGAGATCGGGGCAATATTGGCAAGACTGGGGCCATTGGGAAGAAGGGTG	300	
Db	257	TGGGTGATATGGAGATCAGGGCAATATTGGCAAGACTGGGGCCATTGGGAAGAAGGGTG	316	
Qy	301	ACAAAGGGGAAAAAGTTTGTTCGAATACCTGGAGAAAAGGCAAGCAGGTACTGTCT	360	
Db	317	ACAAAGGGGAAAAAGTTTGTTCGAATACCTGGAGAAAAGGCAAGCAGGTACTGTCT	376	
Qy	361	GTGATTGTGGAAGATACCGGAAATTTGTGTGCAACTTGGATATTAGTATTGCCCGGCTCA	420	
Db	377	GTGATTGTGGAAGATACCGGAAATTTGTGTGCAACTTGGATATTAGTATTGCCCGCTCA	436	
Qy	421	AGACATCTATGAAGTTTGTCAAGAAATGTGATAGCAGGGATTAGGGAAACTGAAGAGAAT	480	
Db	437	AGACATCTATGAAGTTTGTCAAGAAATGTGATAGCAGGGATTAGGGAAACTGAAGAGAAT	496	
Qy	481	TCTACTACATCTGCAGAGACAGAGAACTACAGGGAATCCCTTAAACCCACTCCAGATTTC	540	
Db	497	TCTACTACATCTGCAGAGAGAGAACTACAGGGAATCCCTTAAACCCACTCCAGATTTC	556	
Qy	541	GGGGTGGAAATGCTAGCCATGCCAAGGATGAAGCTGCCAACACACTCATCTGCTGACTATG	600	
Db	557	GGGGTGGAAATGCTAGCCATGCCAAGGATGAAGCTGCCAACACACTCATCTGCTGACTATG	616	
Qy	601	TTGCCAAGAGTGGCTCTTTTCGGGTGTTTCAATTGGCGTGAATGACCTTGAAGAGGAGGAC	660	
Db	617	TTGCCAAGAGTGGCTCTTTTCGGGTGTTTCAATTGGCGTGAATGACCTTGAAGAGGAGGAC	676	
Qy	661	AGTACATGTTCCAGACAACACTCCACTGTCAGAACTATAGCAACTGGAATGAGGGGGAAC	720	
Db	677	AGTACATGTTCCAGACAACACTCCACTGTCAGAACTATAGCAACTGGAATGAGGGGGAAC	736	

ORIGIN

```
Query Match      41.1%; Score 655.8; DB 10; Length 867;
Best Local Similarity 85.2%; Pred. No. 5,6e-156;
Matches 732; Conservative 0; Mismatches 127; Indels 0;
```

QY	721	CGAGGACCCCTATGTCATGAGGACTGTGTGGAGATGCTGAGCTCTCGCAGATGGATG	780
DB	737	CORGACCCCTATGGTCATGAGACTGTGTGGAGATGCTGASCTCTGGCAGATGGATG	796
QY	781	ACACAGAGTGGCATCTTACCATGTACTTTGCTGTGAGTTTCATCAAGAGAGAAAAGTAAAC	840
DB	797	ACACAGAGTGGCATCTTACCATGTACTTTGCTGTGAGTTTCATCAAGAGAGAAAAGTAAAC	856
QY	841	TTCCCTCATCTCAGTAAATTTGCTATTTTCTGTGACCGTCAATACAGTATTGTATTATCCA	900
DB	857	TTCCCTCATCTCAGTAAATTTGCTATTTTCTGTGACCGTCAATACAGTATTGTATTATCCA	916
QY	901	TCCTTTTTTTCCTGATTGTACTACATTTGATCTGAGTCAACATAGCTGAAAAATGCTAAA	960
DB	917	TCCTTTTTTTCCTGATTGTACTACATTTGATCTGAGTCAACATAGCTGAAAAATGCTAAA	976
QY	961	CTGAGGTATGGAGCCTCCATCATCA	985
DB	977	CTGAGGTATGGAGCCTCCATCATCA	1001

RESULT 7	AB016429	867 bp	mRNA	linear	ROD 07-JAN-2003				
LOCUS	AB016429								
DEFINITION	Mus musculus mRNA for collectin-L1, complete cds.								
ACCESSION	AB016429								
VERSION	AB016429.1	GI:27530340							
KEYWORDS	collectin-L1.								
SOURCE	Mus musculus (house mouse)								
ORGANISM	Mus musculus								
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;								
	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.								
REFERENCE	1	Kawai, T., Suzuki, Y., Eda, S., Kase, T., Ohnani, K., Sakai, Y.,							
AUTHORS	Keshi, H., Fukuoh, A., Sakamoto, T., Nozaki, M., Copeland, N. G.,								
	Jenkins, N. A. and Wakamiya, N.								
TITLE	Molecular cloning of mouse collectin liver 1								
JOURNAL	Biosci. Biotechnol. Biochem. 66 (10), 2134-2145 (2002)								
MEDLINE	22333927								
PUBMED	12450134								
REFERENCE	2	(bases 1 to 867)							
AUTHORS	Kawai, T. and Suzuki, Y.								
TITLE	Direct Submission								
JOURNAL	Submitted (21-JUL-1998) Takao Kawai, Osaka Prefectural Institute of								
	Public Health, Laboratory of Food Microbiology; 3-69 Nakamichi								
	1-chome, Higashinari-ku, Osaka 537-0025, Japan								
	(E-mail: kawai@iph.pref.osaka.jp, Tel:81-6-972-1321,								
	Fax:81-6-972-2393)								

FEATURES	SOURCE
1. Feature 1	Source 1
2. Feature 2	Source 2
3. Feature 3	Source 3
4. Feature 4	Source 4
5. Feature 5	Source 5
6. Feature 6	Source 6
7. Feature 7	Source 7
8. Feature 8	Source 8
9. Feature 9	Source 9
10. Feature 10	Source 10
11. Feature 11	Source 11
12. Feature 12	Source 12
13. Feature 13	Source 13
14. Feature 14	Source 14
15. Feature 15	Source 15
16. Feature 16	Source 16
17. Feature 17	Source 17
18. Feature 18	Source 18
19. Feature 19	Source 19
20. Feature 20	Source 20
21. Feature 21	Source 21
22. Feature 22	Source 22
23. Feature 23	Source 23
24. Feature 24	Source 24
25. Feature 25	Source 25
26. Feature 26	Source 26
27. Feature 27	Source 27
28. Feature 28	Source 28
29. Feature 29	Source 29
30. Feature 30	Source 30
31. Feature 31	Source 31
32. Feature 32	Source 32
33. Feature 33	Source 33
34. Feature 34	Source 34
35. Feature 35	Source 35
36. Feature 36	Source 36
37. Feature 37	Source 37
38. Feature 38	Source 38
39. Feature 39	Source 39
40. Feature 40	Source 40
41. Feature 41	Source 41
42. Feature 42	Source 42
43. Feature 43	Source 43
44. Feature 44	Source 44
45. Feature 45	Source 45
46. Feature 46	Source 46
47. Feature 47	Source 47
48. Feature 48	Source 48
49. Feature 49	Source 49
50. Feature 50	Source 50
51. Feature 51	Source 51
52. Feature 52	Source 52
53. Feature 53	Source 53
54. Feature 54	Source 54
55. Feature 55	Source 55
56. Feature 56	Source 56
57. Feature 57	Source 57
58. Feature 58	Source 58
59. Feature 59	Source 59
60. Feature 60	Source 60
61. Feature 61	Source 61
62. Feature 62	Source 62
63. Feature 63	Source 63
64. Feature 64	Source 64
65. Feature 65	Source 65
66. Feature 66	Source 66
67. Feature 67	Source 67
68. Feature 68	Source 68
69. Feature 69	Source 69
70. Feature 70	Source 70
71. Feature 71	Source 71
72. Feature 72	Source 72
73. Feature 73	Source 73
74. Feature 74	Source 74
75. Feature 75	Source 75
76. Feature 76	Source 76
77. Feature 77	Source 77
78. Feature 78	Source 78
79. Feature 79	Source 79
80. Feature 80	Source 80
81. Feature 81	Source 81
82. Feature 82	Source 82
83. Feature 83	Source 83
84. Feature 84	Source 84
85. Feature 85	Source 85
86. Feature 86	Source 86
87. Feature 87	Source 87
88. Feature 88	Source 88
89. Feature 89	Source 89
90. Feature 90	Source 90
91. Feature 91	Source 91
92. Feature 92	Source 92
93. Feature 93	Source 93
94. Feature 94	Source 94
95. Feature 95	Source 95
96. Feature 96	Source 96
97. Feature 97	Source 97
98. Feature 98	Source 98
99. Feature 99	Source 99
100. Feature 100	Source 100

```

1. . . . .
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL 6J"
/db_xref="taxon:10090"
/clone="MCL1-N1C1-9"
/tissue_type="liver"
9. . . . .
/codon_start=1
/product="collectin-L1"
/protein_id="BAC53954.1"
/db_xref="GI:27530341"
/translation="WNGFRVLRNLNLSMLLLALLHFLGSLDVLDSRAAEACVATHI
SPFGKDDGERDGTGEESKDKVGRQPKVKGELGDMGAQNIKGSQPIKTKGDKGKH
KGLLGPFGKKGAGTICDGRYKRVVQGLDIISVARLTKSKTKVIGAGIRETEKFK
YIVQEKNYRSLGTRIRGGLAMPKDVNTLLADIYAKSGGFPRVFIGVNDLBRK
QVVFIDNTPLQNSWNKEEEDSPSGHEDCVMLSSGRWNTTECHLTWYFYVCEFYKDK
K"

```

CDS

```

3. 1. 1942
/codon_start=1
/product="collectrin-L1"
/protein_id="BAC31954.1"
/db_xref="GI:27530341"
/tranlation="=MNGFRVLRNLSMILLALLHFGSLGDLVDVSRAAAEVCATHY
SPFGKDDGERDGTGEKKQKVGKPGKVELGDMGAQNGIKGSGPIGKKGDKGK
KGLGIPGKGAKTICDGRYRVAQQLDLSVARLTKMKTKVVIAGIRTEFKF
YIVQEKNYRGSLTCIRGKGLAMPDENVNTLIADYVAKSGFPRFVIGVNDLREK
QVVFIDNTPLQNSWNKEEEDSPGSHEDCVMLSSGRWNTTECHLTWYFYCFEYVKK
K"

```

Y 1 CAGCAATGAATGCTTTGATCCTTCTGCTTCGAGAAACCAATTTATCTCTCTGCTACTAT 60
b 4 CAGTCAATGAATGCTTTAGAGTCTCTGCTTCGAGAAACCAATTTATCTCTCTGCTACTAG 63
Y 61 TTCTTTTGCATAATTCAGAGTCTGGGTCTGGATTAATTTGATAGCGCTCTCTCTCTGAGTCT 120
b 64 CTCTCTTGCATTTTCAGAGTCTGGGTCTGGATTAATTTGATAGTCTCTCTCTGAGAGTCT 123
Y 121 GTGCCACACACAAATTTCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
b 124 GTGCCACACATACCAATTTCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 183
Y 181 GAGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
b 184 GAGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 243
Y 241 TGGGTGATATGGAGAGATCGGGGCAATTTTGGCAAGACTGGGGCCATTTGGGAGGAGGAG 300
b 244 TGGGTGATATGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 303
Y 301 ACAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
b 304 ACAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 363
Y 361 GTGATTTGGAGAGATACCGGAAATTTTGGCAAGACTGGGGCCATTTGGGAGGAGGAGGAG 420
b 364 GTGATTTGGAGAGATACCGGAAATTTTGGCAAGACTGGGGCCATTTGGGAGGAGGAGGAG 423
Y 421 AGACATCTATGAAGTTTGTCAAGAAATGTATAGCAGGAGGAGGAGGAGGAGGAGGAGGAG 480
b 424 AGACATCAATGAAGTTTGTCAAGAAATGTATAGCAGGAGGAGGAGGAGGAGGAGGAGGAG 483
Y 481 TCTACTACATGCTGAGAGAGAGAGAACTTACAGGAAATCCCTTAACCCCTCTGAGGAGGAG 540
b 484 TCTACTACATGCTGAGAGAGAGAGAACTTACAGGAAATCCCTTAACCCCTCTGAGGAGGAG 543
Y 541 GGGGTGGAATCTAGCCATCCCAAGAGTGAAGCTCCCAACACACTCATGCTGAGGAGGAG 600
b 544 GAGAGGAGGAGTCTAGCCATCCCAAGAGTGAAGCTCCCAACACACTCATGCTGAGGAGGAG 603
Y 601 TTGCCAAGAGTGGCTTTCTTTCGAGTGTTCATTTGGCGTGAATGACCTTGAAGAGGAGGAG 660
b 604 TCGCCAAGAGTGGTCTTCTTCAGAGTGTTCATTTGGCGTGAATGACCTTGAAGAGGAGGAG 663
Y 661 AGTACATGTTTCAGAGAACTCCCACTGAGAGTATAGCACTGAGTGGAGGAGGAGGAGGAG 720
b 664 AATATGTTTCAGAGAACTCCCACTGAGAGTATAGCACTGAGTGGAGGAGGAGGAGGAGGAG 723
Y 721 CCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
b 724 CTAGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 783
Y 781 ACAGAGAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
b 784 ACAGAGAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 843
Y 841 TTCCCTCATCTCTAGTATT 859
b 844 TTTCTCATGTTACAGT 862

RESULT 8
AX410041/c
LOCUS AX410041 496 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 2688 from Patent WO0229103.
ACCESSION AX410041
VERSION AX410041.1 GI:21442746
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source
ORIGIN

1
Alvares, C., Horne, D., Peres-da-Silva, S. and Vockley, J.G.
Gene expression profiles in liver cancer
Patent: WO 0229103-A 2688 11-APR-2002;
GENE LOGIC INC (US)
Location/Qualifiers
1..496
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
/note="EMBL/GenBank Accession No. N74624"

Query Match 22.5%; Score 358.2; DB 6; Length 496;
Best Local Similarity 96.8%; Pred. No. 3.8e-80;
Matches 387; Conservative 0; Mismatches 10; Indels 3; Gaps 2;

QY 1198 TTACTCTGCTGATGATTAGGAAGGTTGTTG--ATGTTAGGCTAACCTGCTGCCCCAAA 1255
Db 411 TTACTCTGCTGATGATTAGGAAGGTTGTTGATGTTAGGCTAACCTGCTGCCCCAAA 352
QY 1256 G-CCAGACATGTACAAAGGCTTTTCTGTGAGCAATGATAGATCTTTGAATCCAAGATGCC 1314
Db 351 GCCAGACATGTACAAAGGCTTTTCTGTGAGCAATGATAGATCTTTGAATCCAAGATGCC 292
QY 1315 CAGATGTTTTCACAGTCAACCCATGCGCATGCGTACTTTGGAAGTCTCTCTGTTGG 1374
Db 291 CAGATGTTTTCACAGTCAACCCATGCGCATGCGTACTTTGGAAGTCTCTCTGTTGG 232
QY 1375 CACAGACATAGAAATGCTTTTAAACCCAAAGCTTTTATATGCGGAGCTTCTAGCTTTGTGTC 1434
Db 231 CACAGACATAGAAATGCTTTTAAACCCAAAGCTTTTATATGCGGAGCTTCTAGCTTTGTGTC 172
QY 1435 TTGTTTTCACAGTCAACCCATGCGCATGCGTACTTTTGTGCTCTGATCTATCGATTCA 1494
Db 171 TTGTTTTCACAGTCAACCCATGCGCATGCGTACTTTTGTGCTCTGATCTATCGATTCA 112
QY 1495 CTAAACATATACCAAGTAGGTGCTTTTGAACCCCTTTTCTTAGGCTCACACCTTAATCTCAG 1554
Db 111 CTAAACATATACCAAGTAGGTGCTTTTGAACCCCTTTTCTTAGGCTCACACCTTAATCTCAG 52
QY 1555 GCCCTATATAGTACACCTTTGATTTAAGAAACCGAGC 1594
Db 51 GCCCTATATAGTACACCTTTGATTTAAGAAACCGAGC 12

RESULT 9
AC115924
LOCUS AC115924 166900 bp DNA linear HTG 18-JUN-2003
DEFINITION Mus musculus clone RP24-511011, WORKING DRAFT SEQUENCE, 4 ordered pieces.
ACCESSION AC115924 GI:31880195
VERSION AC115924.4 HTG; HTGS PHASE2; HTGS_DRAFT; HTGS_FULLTOP.
KEYWORDS Mus musculus (house mouse)
SOURCE Mus musculus
ORGANISM Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 166900)
AUTHORS Birren, B., Nuebaum, C. and Lander, E.
TITLE Mus musculus, clone RP24-511011
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 166900)
AUTHORS Birren, B., Linton, L., Nuebaum, C., Lander, E., Ali, A., Allen, N., Anderson, S., Barna, N., Bastien, V., Bloom, T., Boguslavsky, L., Boukigaiter, B., Brown, A., Camarata, J., Campopiano, A., Chang, J., Chazaro, B., Choepel, V., Colangelo, M., Collins, S., Collymore, A., Cook, A., Cooke, P., DeArellano, K., Dewar, K., Diaz, J. S., Dodge, S., Fero, S., Ferreira, P., FitzHugh, W., Gage, D., Galagan, J., Gardyna, S., Ginde, S., Gord, S., Goyette, M., Graham, L., Grand-Pierre, N., Hagos, B., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Lacroque, K., Lamazares, R., Landers, T., Lehoczy, J., Levine, R., Lindblad-Toh, K., Liu, G.,

MacLean, C., Macdonald, P., Major, J., Marquis, N., Matthews, C., McCarthy, M., McEwan, P., McKernan, K., Meldrim, J., Meneus, L., Mihova, T., Mienga, V., Murphy, T., Naylor, J., Nguyen, C., Nicol, R., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Pollara, V., Raymond, C., Retta, R., Rieback, M., Riley, R., Rise, C., Rogov, P., Roman, J., Rosetti, M., Roy, A., Santos, R., Schauer, S., Schupback, R., Seaman, S., Severy, P., Spencer, B., Stange-Thomann, N., Stojanovic, N., Straus, N., Subramanian, A., Talamas, J., Tesfaye, S., Theodore, J., Topham, K., Travers, M., Travis, N., Trigilio, J., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W.J., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

Direct Submission
Submitted (22-MAR-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
3 (bases 1 to 166900)

REFERENCE
AUTHORS
Birren, B., Nusbaum, C., Lander, E., Abouelkail, A., Allen, N., Anderson, M., Arachchi, H.M., Barna, N., Bastien, V., Bloom, T., Boquslavsky, L., Bouchgalter, B., Camarata, J., Chang, J., Choepel, Y., Collimore, A., Cook, A., Cooke, P., Corum, B., Dearellano, K., Faro, S., Diaz, J.S., Dodge, S., Dooley, K., Dorris, L., Erickson, J., Gage, D., Ferreira, P., Fitzgerald, M., Gage, D., Galagan, J., Gardyna, S., Graham, L., Grand-Pierre, N., Hafez, N., Hagopian, D., Hagos, B., Hall, J., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Kamat, A., Karatas, A., Kells, C., Landers, T., Levine, R., Lindblad-Toh, K., Liu, X., Lui, A., Mabbitt, R., MacLean, C., Macdonald, P., Major, J., Manning, J., Matthews, C., McCarthy, M., Meldrim, J., Meneus, L., Mihova, T., Mienga, V., Murphy, T., Naylor, J., Nguyen, C., Nicol, R., Norbu, C., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N., Rachupka, A., Ramasamy, U., Raymond, C., Retta, R., Rise, C., Rogov, P., Roman, J., Schauer, S., Schupback, R., Seaman, S., Severy, P., Smith, C., Spencer, B., Stange-Thomann, N., Stojanovic, N., Stubbs, M., Talamas, J., Tesfaye, S., Theodore, J., Topham, K., Travers, M., Vassiliev, H., Venkataraman, V.S., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

Direct Submission
Submitted (18-JUN-2003) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
On Jun 18, 2003 this sequence version replaced gi:21490462.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research

Center code: WIBR
Web site: <http://www-seq.wi.mit.edu>
Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: 124895

Center clone name: 511_O_11
----- Summary Statistics
Sequencing vector: Plasmid; n/a; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731
Consensus quality: 165573 bases at least Q40
Consensus quality: 166156 bases at least Q30
Consensus quality: 166365 bases at least Q20
Insert size: 157000; agarose-fp
Insert size: 166500; sum-of-contigs
Quality coverage: 13.2 in Q20 bases; agarose-fp
Quality coverage: 12.4 in Q20 bases; sum-of-contigs

NOTE: This is a 'working draft' sequence. It currently consists of 4 contigs. Gaps between the contigs are represented as runs of N. The order of the pieces is believed to be correct as given, however the sizes of the gaps between them are based on estimates that have been provided by the submitter.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.
*
* 1 48320: contig of 48320 bp in length

FEATURES source

misc_feature
1..48320
/organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"
/clone="RP24-511O11"
/clone_lib="RPCI-24 Male Mouse BAC"
1..48320
/notes="assembly_fragment"
clone_end:SP6
vector_side:left
48421..59799
/notes="assembly_fragment"
59900..135830
/notes="assembly_fragment"
135931..166900
/notes="assembly_fragment"
clone_end:T7
vector_side:right

misc_feature
1..48320
/organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"
/clone="RP24-511O11"
/clone_lib="RPCI-24 Male Mouse BAC"
1..48320
/notes="assembly_fragment"
clone_end:SP6
vector_side:left
48421..59799
/notes="assembly_fragment"
59900..135830
/notes="assembly_fragment"
135931..166900
/notes="assembly_fragment"
clone_end:T7
vector_side:right

ORIGIN

Query Match 21.68; Score 344.4; DB 2; Length 166900;
Best Local Similarity 82.38; Pred. No. 1.2e-76;
Matches 408; Conservative 0; Mismatches 86; Indels 2; Gaps 1;
QY 447 CTGTAGCAGGATAGGAACTAGAGAAATCTTACTACATCTGTGAGGAGGAGAG 506
Db 15148 GTTATAGCAGGATCCGGAACTAGAGAAATCTTACTACATCTGTGAGGAGGAGAG 15207
QY 507 AACTACAGGATCCCTAACCCCTGCAGGATTCGGGTGGATGCTGATGCCATGCCCAAG 566
Db 15208 AACTACAGGATCTCTGACCCCTGCAGGATCCGAGAGGGATGCTGATGCCATGCCCAAG 15267
QY 567 GATGAAGCTGCCAACACACTCATGCTGACTATGTTGCCAAGAGTGGCTTCTTTGGGGTG 626
Db 15268 GATGAAGCTGTTAACACCTTATTTGCTGACTATGTTGCCAAGAGTGGCTTCTTTGAGAGTG 15327
QY 627 TTCATTGGCGTGAATGACCTTGAAGGGAGGAGGAGTACATGTTTCACACACACTCCA 686
Db 15328 TTCATTGGCGTGAATGACCTTGAAGGGAGGAGGAGTACATGTTTCACACACACTCCA 15387
QY 687 CTGCAGAACTATAGCAACTGGATAGGGGGGAAACCCAGCGACCCCTATGCTCATGAGGAC 746
Db 15388 TTGCAGAACTATAGCAACTGGATAGGGGGGAAACCCAGCGACCCCTATGCTCATGAGGAC 15447
QY 747 TGTGTGGAGATGCTGAGCTCTGGCAGATGGAATGACACAGAGTCCCATCTTACCATGTAC 806
Db 15448 TGTGTGGAGATGTTGAGCTCTGGCAGATGGAATGACACAGAGTCCCATCTTACCATGTAT 15507
QY 807 TTTTGCTGTGAGTTTCATCAAGAGAGAGAGTAACTTCCCTCATCCTACGTAATTTGCTATT 866
Db 15508 TTTTGCTGTGAGTTTGTCAG 15567
QY 867 TTCCTGTGACCGTCATTACAGTATTGTTTATCCATCCCTTTTTTCTGATGTTACTACAT 926
Db 15568 TCCTTGGGTC--TCCTAGTAGTCACTTTTATCCATCTTTGCTTCCCTTCTTATACATTGCTT 15625
QY 927 TTGATCTCAGTCAACA 942
Db 15626 TTGCTCAATGCCATA 15641

RESULT 10

AC123656
LOCUS
DEFINITION
AC123656 222510 bp DNA linear HTG 27-MAR-2003
Mus musculus clone RP23-188M21, WORKING DRAFT SEQUENCE, 6 unordered
pieces.


```

2Y 687 CTGCAGAACTATAGCAACTGGAATGGGGGGAACCCAGCAGACCCCTATGCTCATGAGGAC 746
2b 157440 TTGCAGAACTACAGCAACTGGAAGGAGGAGAACCTAGTGACCCCTCCGGCCATGGGAC 157499
2Y 747 TGTGTGAGAGTGTGAGCTCTGGCAGATGGAATGACACAGAGTGCCATCTTACCATTGATC 806
2b 157500 TGTGTGAGAGTGTGAGCTCTGGCAGATGGAATGACACAGAGTGCCATCTTACCATTGAT 157559
2Y 807 TTTGCTGTGAGTTCATCAAGAGAAAGAAAGTAACTTCCCTCATCTCCATCTTGTGCTATT 866
2b 157560 TTTGCTGTGAGTTCATCAAGAGAAAGAAAGTAACTTCCCTCATCTTGTGCTATT 157619
2Y 867 TTCCTGTGACCGTCAATACAGTATTCTTATCCATCCCTTTTTCCTGATGTACTACAT 926
2b 157620 TCCCTGGGTC--TCTAGTAGTACATCTTTTATCCATCTTTCCTTCCCTTCAATTACATGCTT 157677
2Y 927 TTGATCTGAGTCAACA 942
2b 157678 TTGCTCAATGCCATA 157693

RESULT 11
AC131337
LOCUS
DEFINITION Mus musculus clone RP23-480E1, WORKING DRAFT SEQUENCE, 17 unordered
pieces:
ACCESSION AC131337
VERSION AC131337.4 GI:30017797
KEYWORDS HTG; HTGS PHASE1; HTGS DRAFT.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 345420)
Birren,B., Nusbaum,C. and Lander,E.
Mus musculus, clone RP23-480E1
Unpublished
REFERENCE 2 (bases 1 to 345420)
Birren,B., Nusbaum,C., Lander,E., Ali,A., Allen,N., Anderson,S.,
Barna,N., Bastien,V., Bloom,T., Boguslavsky,L., Bouckgater,B.,
Camarata,J., Chang,J., Chazaro,B., Choepel,Y., Collymore,A.,
Cook,A., Cooke,P., DeArrellano,K., Dewar,K., Diaz,J.S., Dodge,S.,
Faro,S., Ferreira,P., Fitzgerald,M., Gage,D., Galagan,J.,
Gardyna,S., Gord,S., Graham,L., Grand-Pierre,N., Hagos,B.,
Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C., Kamat,A.,
Karatas,A., Kells,C., Landers,T., Levine,R., Lindblad-Toh,K.,
Liu,G., Maclean,C., Macdonald,P., Major,J., Matthews,C.,
McCarthy,M., Meldrim,J., Meneus,L., Mihova,T., Mienga,V.,
Murphy,T., Naylor,J., Nguyen,C., Nicol,R., Norbu,C., Norman,C.H.,
O'Connor,T., O'Donnell,P., O'Neill,D., Oliver,J., Peterson,K.,
Phunkhang,P., Pierre,N., Raymond,C., Retta,R., Rise,C., Rogov,P.,
Roman,J., Roy,A., Schauer,S., Schuback,R., Seaman,S., Severy,P.,
Smith,C., Spencer,B., Stange-Thomann,N., Stojanovic,N., Talamas,J.,
Tesfaye,S., Theodore,J., Topham,K., Travers,M., Vassiliev,H.,
Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Young,G., Zainoun,J.,
Zembek,L., Zimmer,A. and Zody,M.
Direct Submission
Submitted (20-AUG-2002) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
3 (bases 1 to 345420)
Birren,B., Nusbaum,C., Lander,E., Abouelleil,A., Allen,N.,
Anderson,S., Arachchi,H.M., Barna,N., Bastien,V., Bloom,T.,
Boguslavsky,L., Bouckgater,B., Camarata,J., Chang,J., Choepel,Y.,
Collymore,A., Cooke,A., Cooke,P., Corum,B., DeArrellano,K.,
Diaz,J.S., Dodge,S., Dooley,K., Dorris,L., Erickson,J., Faro,S.,
Ferreira,P., Fitzgerald,M., Gage,D., Galagan,J., Gardyna,S.,
Graham,L., Grand-Pierre,N., Hafez,N., Hagopian,D., Hagos,B.,
Hall,J., Horton,L., Hulme,W., Iliev,I., Johnson,R., Jones,C.,
Kamat,A., Karatas,A., Kells,C., Landers,T., Levine,R.,
Lindblad-Toh,K., Liu,G., Lui,A., Mabbitt,R., Maclean,C.,
Macdonald,P., Major,J., Manning,J., Matthews,C., McCarthy,M.,
Meldrim,J., Meneus,L., Mihova,T., Mienga,V., Murphy,T., Naylor,J.,

```

```

Nguyen,C., Nicol,R., Norbu,C., O'Connor,T., O'Donnell,P.,
O'Neill,D., Oliver,J., Peterson,K., Phunkhang,P., Pierre,N.,
Rachupka,A., Ramasamy,U., Raymond,C., Retta,R., Rise,C., Rogov,P.,
Roman,J., Schauer,S., Schuback,R., Seaman,S., Severy,P., Smith,C.,
Spencer,B., Stange-Thomann,N., Stojanovic,N., Stubbs,M.,
Talamas,J., Tesfaye,S., Theodore,J., Topham,K., Travers,M.,
Vassiliev,H., Venkataraman,V.S., Viel,R., Vo,A., Wilson,B., Wu,X.,
Wyman,D., Young,G., Zainoun,J., Zembek,L., Zimmer,A. and Zody,M.
Direct Submission
Submitted (23-APR-2003) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Apr 17, 2003 this sequence version replaced gi:28626850.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: L26504
Center clone name: 480_E_1
-----
* NOTE: This is a 'working draft' sequence. It currently
* consists of 17 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
*
* 1221: contig of 1221 bp in length
* 1222 1321: gap of 100 bp
* 1322 2740: contig of 1419 bp in length
* 2741 4351: contig of 1511 bp in length
* 4352 4451: gap of 100 bp
* 4452 7231: contig of 2780 bp in length
* 7232 7331: gap of 100 bp
* 7332 13580: contig of 6249 bp in length
* 13581 19224: contig of 5544 bp in length
* 19225 19324: gap of 100 bp
* 19325 24245: contig of 4921 bp in length
* 24246 24345: gap of 100 bp
* 24346 33304: contig of 8959 bp in length
* 33305 33404: gap of 100 bp
* 33405 43953: contig of 10555 bp in length
* 43954 64193: contig of 20133 bp in length
* 64194 64292: gap of 100 bp
* 64293 140233: contig of 75941 bp in length
* 140234 140333: gap of 100 bp
* 140334 166937: contig of 26604 bp in length
* 166938 167037: gap of 100 bp
* 167038 202564: contig of 35527 bp in length
* 202565 202664: gap of 100 bp
* 202665 235865: contig of 33201 bp in length
* 235866 282239: contig of 46274 bp in length
* 282240 282339: gap of 100 bp
* 282340 325240: contig of 42901 bp in length
* 325241 325340: gap of 100 bp
* 325341 345420: contig of 20080 bp in length.
*
* Location/Qualifiers
* 1..345420
* /organism="Mus musculus"
* /mol_type="genomic DNA"
* /db_xref="taxon:10090"
* /clone="RP23-480E1"
* /clone_lib="RPCI-23 Female Mouse BAC"
* misc_feature 1..1221

```

FEATURES
source

misc_feature /note="assembly_fragment"
1322..2740
misc_feature /note="assembly_fragment"
2841..4351
misc_feature /note="assembly_fragment"
4452..7231
misc_feature /note="assembly_fragment"
7332..13580
misc_feature /note="assembly_fragment"
13681..19224
misc_feature /note="assembly_fragment"
19325..24245
misc_feature /note="assembly_fragment"
24346..33304
misc_feature /note="assembly_fragment"
33405..43959
misc_feature /note="assembly_fragment"
44060..64192
misc_feature /note="assembly_fragment"
64293..140233
misc_feature /note="assembly_fragment"
140334..166937
misc_feature /note="assembly_fragment"
167038..202564
misc_feature /note="assembly_fragment"
202665..235865
misc_feature /note="assembly_fragment"
235966..282239
misc_feature /note="assembly_fragment"
282340..325240
misc_feature /note="assembly_fragment"
325341..345420
misc_feature /note="assembly_fragment
clone end:T7
vector_side:right"

RIGIN

Query Match 21.6%; Score 344.4; DB 2; Length 345420;
Best Local Similarity 82.3%; Pred. No. 1.2e-76;
Matches 408; Conservative 0; Mismatches 86; Indels 2; Gaps 1;
Y 447 GTGATGAGGAGATTAGGAAATCGAAGAAATCTACTATCGTCGCGAAGAGAGAG 506
b 176225 GTTATAGCAGGATCGGAACTGAAGAAATCTACTATGTCAGGAGAGAG 176284
Y 507 AACTACAGGAAATCCCTACCCATCGAGATTCGGGTGGAAATGCTAGCCATGCCAG 566
b 176285 AACTACAGGAAATCTCTGACCCACTGACGATCCGAGGAGGATGCTAGCCATGCCAG 176344
Y 567 GATGAAGTCCCAACACACTCATCGCTGACTATGTTGCCAAGAGTGGCTTCTTCGGGTG 626
b 176345 GATGAAGTGGTTAAACCTTATGCTGACTATGTCGCCAAGAGTGGTTCTTCAGAGTG 176404
Y 627 TTGATGGGCGTGAATGACCTTGAAGGAGGAGGACAGTACATGTTCCACAGAAACATCCCA 686
b 176405 TTGATGGGCGTGAATGACCTTGAAGGAGGAGGAGGAGTATGTTCCACAGAAACATCCCA 176464
Y 687 CTCGAGAACTATAGCACTGGAATGAGGGGGAACCCAGCGCCCTATGTCATGAGGAC 746
b 176465 TTGCGAACTATAGCACTGGAATGAGGGGGAACCCAGCGCCCTATGTCATGAGGAC 176524
Y 747 TGTGTGAGATGCTGAGCTTGTGCAGATGGAATGACACAGATGCCATCTTACCATGTAC 806
b 176525 TGTGTGAGATGCTGAGCTTGTGCAGATGGAATGACACAGATGCCATCTTACCATGTAT 176584
Y 807 TTTGCTGTGAGTTCATCAGAGAAAGTAACTTCCCTCATCTCAGTATGTCATTT 866
b 176585 TTTGCTGTGAGTTCATCAGAGAAAGTAAATTTTCCCTCATGTTACAGTACACCTT 176644
Y 867 TTCCTGTGACCGCTATTACAGTATGTTATCCATCCTTTTTTCTGATGTTACTACAT 926
b 176645 TCCCTGGGTC-TCCTAGTAGTACATTTTATCCATCTTTGCTTCTTAATACATTTGCTT 176702

QY 927 TTGATCTGAGTCAACA 942
Db 176703 TTGCTCAATGCCATA 176718

RESULT 12

AC097055 234922 bp DNA linear HTG 15-NOV-2002
Rattus norvegicus clone CH230-2P22, WORKING DRAFT SEQUENCE, 3
unorderred pieces.
AC097055 GI:25007102
HTG: HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
Rattus norvegicus (Norway rat)
Rattus norvegicus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
1 (bases 1 to 234922)

REFERENCE
AUTHORS

Muzny, D.M., Adams, C., Adio-Oduola, B., Ali-osman, F.R., Allen, C.,
Alsbrooks, S.L., Amaratunge, H.C., Are, J.R., Ayele, M., Banks, T.,
Barbaria, J., Benton, J., Bimaga, K., Blankenburg, K., Bonnin, D.,
Bouck, J., Bowie, S., Brieve, M., Brown, E., Brown, M., Bryant, N.P.,
Buhay, C., Burch, P., Burkett, C., Burrell, K.L., Byrd, N.C.,
Carron, T.F., Carter, M., Cavazos, S.R., Chacko, J., Chavez, D.,
Chen, G., Chen, R., Chen, Z., Chowdhry, I., Christopoulos, C.,
Cleveland, C.D., Cox, C., Coyle, M.D., Dathorne, S.R., David, R.,
Davila, M.L., Davis, C., Davy-Cartoll, L., Dederich, D.A.,
Delaney, K.R., Delgado, O., Denn, A.L., Ding, Y., Dinh, H.H.,
Douthwaite, K.J., Draper, H., Dugan-Rocha, S., Durbin, K.J.,
Earnhart, C., Edgar, D., Edwards, C.C., Elhaj, C., Escotto, M.,
Falls, T., Ferraguto, D., Flagg, N., Ford, J., Foster, P., Franz, P.,
Gabisi, A., Gao, J., Garcia, A., Garner, T., Garza, N., Gill, R.,
Gorrell, J.H., Guevara, W., Gunaratne, P., Hale, S., Hamilton, K.,
Harris, C., Harris, K., Hart, M., Havlak, P., Hawes, A., Hernandez, J.,
Hernandez, C., Hodgson, A., Hogues, M., Holloway, C., Hollins, B.,
Homs, F., Howard, S., Huber, J., Hulyk, S., Hume, J., Jackson, L.E.,
Jacobson, B., Jia, Y., Johnson, R., Jolivet, S., Joudah, S.,
Karlsson, E., Kelly, S., Khan, U., King, L., Korvah, J., Kovar, C.,
Kratovic, J., Kuresh, A., Landry, N., Leal, B., Lewis, L.C., Lewis, L.,
Li, J., Li, Z., Lichtarge, O., Lieu, C., Lucier, R., Luna, R., Ma, J.,
Lozano, R.J., Lu, X., Lucier, A., Lucier, R., Martindale, A., Martinez, E.,
Maheshwari, M., Mapus, P., Martin, R., Meador, M., Mei, G., Metzger, M.,
Massey, E., Mathew, E., McLeod, M.P., Meador, M., Morgan, M., Morris, S.,
Miner, G., Miner, Z., Mitchell, T., Mohabbat, K., Morgan, M., Morris, S.,
Mosier, M., Neal, D., Newton, J., Newton, N., Nguyen, A., Nguyen, N.,
Nguyen, N., Nickerson, E., Nwokenkwo, S., Ogih, M., Okwuonu, G.,
Oragunye, N., Oviedo, R., Pacer, A., Payton, B., Peery, J., Perez, L.,
Peters, L., Pickens, R., Primus, E., Pu, L.L., Quiles, M., Ren, Y.,
Rivers, M., Rojas, A., Rojubokan, I., Rolfe, M., Ruiz, S., Savery, G.,
Scherer, S., Scott, G., Shen, H., Shoohtari, N., Sisson, I.,
Sodergren, E., Sonaik, T., Sparks, A., Stanley, H., Stone, H.,
Sutton, A., Svatek, A., Taber, P., Tameria, A., Tameria, K., Tang, H.,
Tansey, J., Taylor, C., Taylor, T., Telford, B., Thomas, N., Thomas, S.,
Usmani, K., Vasquez, L., Vera, V., Villalon, D., Vinson, R., Wang, Q.,
Wang, S., Ward-Moore, S., Warren, R., Washington, C., Watlington, S.,
Williams, G., Williamson, A., Wleczyk, R., Wooden, S., Worley, K.,
Wu, C., Wu, Y., Zhou, J., Zorrilla, S., Nelson, D.,
Weinstock, G. and Gibbs, R.

TITLE

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

2 (bases 1 to 234922)
Direct Submission
Submitted (06-OCT-2001) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 234922)
Direct Submission
Submitted (15-NOV-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

REFERENCE

AUTHORS

TITLE

JOURNAL

Direct Submission
Submitted (15-NOV-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

COMMENT

On Nov 15, 2002 this sequence version replaced gi:23664540.
The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center

Center: Baylor College of Medicine

Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: TUIS

Center clone name: CH230-2F22

----- Summary Statistics

Assembly program: Phrap; version 0.990329

Consensus quality: 231210 bases at least Q40

Consensus quality: 232236 bases at least Q30

Consensus quality: 233086 bases at least Q20

Estimated insert size: 241867; sum-of-contigs estimation

Quality coverage: 11x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length

* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).

* NOTE: This is a 'working draft' sequence. It currently

* consists of 3 contigs. The true order of the pieces

* is not known and their order in this sequence record is

* arbitrary. Gaps between the contigs are represented as

* runs of N, but the exact sizes of the gaps are unknown.

* This record will be updated with the finished sequence

* as soon as it is available and the accession number will

* be preserved.

* 1 186689: contig of 186689 bp in length

* 188690 188789: gap of unknown length

* 188790 232956: contig of 44167 bp in length

* 232957 233056: gap of unknown length

* 233057 234922: contig of 1866 bp in length.

Location/Qualifiers

FEATURES

1..234922

/organism="Rattus norvegicus"

/mol_type="genomic DNA"

/db_xref="taxon:10116"

/clone="CH230-2F22"

ORIGIN

Query Match 21.5%; Score 343; DB 2; Length 234922;
Best Local Similarity 83.1%; Pred. No. 2.7e-76;
Matches 403; Conservative 0; Mismatches 80; Indels 2; Gaps 1;
QY 447 GTGATAGCAGGATAGGGAACCTGAAGAGAAATCTACTACATCGTCGAGGAGAGAAG 506
Db 14303 GTCATAGCAGGATCCGGGAACCTGAAGAGAAATCTACTACATCGTCGAGGAGAGAAG 14362
QY 507 AACTACAGGGAATCCCTAACCCACTGAGGATTCGGGGTGAATGCTAGCCATGCCCAAG 566
Db 14363 AACTACAGGGAATCTCTGACCCACTGAGGATTCGGGGGAGGATGCTGGGCATGCCCTAAG 14422
QY 567 GATGAAGCTGCCAACACACTCATCGCTACTATGTTGCCAAGAGTGGCTCTTTTCGGGTG 626
Db 14423 GATGAAGTGTTTAACACTCTTATTGCTGACTATGTCGCCAAGAGTGGCTCTTTTCAGAGTG 14482
QY 627 TTCATTGGCGTGAATGACCTTGAAGAGGAGGAGGAGTACATGTTTCACAGACACACTCCA 686
Db 14483 TTCATTGGCGTGAATGACCTTGAAGAGGAGGAGGAGTACATGTTTTCACAGACACACTCCA 14542
QY 687 CTGCAGAACTATAGCAACTGGAATGAGGGGGAACCCAGCGACCCCTATGTCATGAGGAC 746

Db 14543 TTCCAGAACTACAGCAACTGGAAGGAGGGAGCCTAGTACCCCTATGGCATGAGGAC 14602
QY 747 TGTGTGGAGATGCTGAGCTCTCGCAGATGGAATGACAGAGTGCATCTTACCATGTAC 806
Db 14603 TGTGTGGAGATGCTGAGCTCTCGCAGATGGAACGACAGAGTGTCTTACCATGTAT 14662
QY 807 TTTGTCTGTGAGTTTCATCAAGAAGAAAAGTAACCTTCCTCATCTCTAGCTATTTCCTATT 866
Db 14663 TTTGTCTGTGAGTTTCATCAAGAAGAAAATTAATTTCTTCATGTTACACAGGCACTTC 14722
QY 867 TTCTGTGACCGGCATTAACAGTTATGTTATCCATCCCTTTTTCCTGATGTACTACAT 926
Db 14723 TCCAGGGTCTC--TCTTAGCAGTTACTTTTATTTCATTGTTGCTTTCTAACTTCATTGAT 14780
QY 927 TTGAT 931
Db 14781 TTGCT 14785
RESULT 13
BC056052
LOCUS
DEFINITION
Xenopus laevis collectin sub-family member 11, mRNA (cDNA clone
MGC:49012 IMAGE:4963954), complete cds.
ACCESSION
BC056052
VERSION
BC056052.1 GI:33417123
KEYWORDS
MGC.
SOURCE
Xenopus laevis (African clawed frog)
ORGANISM
Xenopus laevis
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipidea; Pipidae;
Xenopodinae; Xenopus.
1 (bases 1 to 1272)
Klein, S.B., Strausberg, R.L., Wagner, L., Pontius, J., Clifton, S.W.
and Richardson, P.
Genetic and genomic tools for Xenopus research: The NIH Xenopus
initiative
Dev. Dyn. 225 (4), 384-391 (2002)
JOURNAL
MEDLINE
22341132
PUBMED
1454917
REFERENCE
2 (bases 1 to 1272)
A. Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, I., Wang, J., Hsieh, P.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Scapleton, M., Soares, W.B., Bonaldo, M.P., Casavant, T.L.,
Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mullah, S.J., Bosak, S.A., McEwan, P.J.,
McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Sanchez, J., Helton, E., Kettelman, M., Maman, A., Rodriguez, S.,
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Krzywicki, M.I., Skalska, U., Smal, D.E.,
Scherer, A., Schein, J.E., Jones, S.J. and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
JOURNAL
MEDLINE
22388257
PUBMED
12477932
REFERENCE
3 (bases 1 to 1272)
Klein, S. and Strausberg, R.
Direct Submission
Submitted (01-AUG-2003) National Institutes of Health, Xenopus Gene
Collection (XGC), National Institute of Child Health and Human
Development, 6100 Executive Boulevard, Room 4B01, Rockville, MD
20892-7510, USA
NIH-MGC Project

COMMENT

Contact: XGC help desk
 Email: cgahe-r@mail.nih.gov
 Tissue Procurement: Dr. Igor Dawid
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305
 Web site: <http://www.shgc.stanford.edu>
 Contact: (Dickson, Mark) mcd@paxil.stanford.edu
 Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. N.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Series: IRAK plate: 129 Row: 1 Column: 1
 This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, Similarity but not identity to protein.

FEATURES

Location/Qualifiers
 1..1272

/organism="Xenopus laevis"

/mol_type="mRNA"

/db_xref="taxon:8355"

/clone="MGC:69012 IMAGE:4963954"

/tissue_type="Spleen, adult Xenopus"

/clone_lib="NICHID_XGC_Spl"

/lab_host="DH10B"

/note="Vector: pCMV-SPORT6"

gene

1..1272

/gene="colecl1-prov"

/note="synonym: MGC69012"

/db_xref="LocusID:380029"

107..922

/codon_start=1

/product="colecl1-prov protein"

/protein_id="AAH56052.1"

/db_xref="GI:33417124"

/db_xref="LocusID:380029"

/translation="MKDILLFNGTISLFLILGSGVCOHIDTCTSVOLVPLGLK
 DAGEKGEKGPORPVRPPEKEIGDKIGKSMGRHKGIGPISGSKGKDVQGIQIP
 PGPPEGPICCGQLKRAKVDIOVAQLATEFVNQVAVGVRTEETKIYLLKKE
 KXYIDAQYQCGRGTLSMPKDEATNSLIASYNHAGLSRVFINDLERHGFVYSD
 RSPMTFNKROAENFAYDEEDCAEMVSSGWNVDLSLITMYFICFDKENY"
 566..904

misc_feature

/note="CLECT; Region: C-type lectin (CTL) and CTL-like domains"

/db_xref="CDD:cd00037"

ORIGIN

Query Match 16.8%; Score 268.2; DB 5; Length 1272;
 Best Local Similarity 59.1%; Pred. No. 3.3e-57;
 Matches 476; Conservative 0; Mismatches 328; Indels 1; Gaps 1;
 Y 82 TGGGTCTGATATTGATAGCGCTCTACCGCTGAAGTCTGTGCCACACACACATTTTAC 141
 b 166 TGGATCTGATATTGTCAGCATC-ACAGATGACATGTTCTGTGAGATCTTTGTC 224
 Y 142 CAGGACCCAAAGAGATGATGTGAAAGAGAGATCCAGGAGAGAGGAAAGCATGGCA 201
 b 225 CTGGTCTGAAAGAGATCGCGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 284
 Y 202 AATGGGACGCAATGGGCGCAAGAGATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 261
 b 285 GAGTTGGCCCTCTCGGGGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 344
 Y 262 GCAATATTGCAAGATCGGCGCATTTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 321
 b 345 GTCGTATGAAGAGATTTGCTCTTTGTTTGAAGAGAGAGAGAGAGAGAGAGAGAGAG 404
 Y 322 TTGGAATACCTGGAG 381
 b 405 TCGGCCCTCCAGGACCAATAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 464

QY 382 AATTTGTTGGACAACTGGATATTAGTATTTCCCGGCTCAAGACATCTATGAAGTTTGTCA 441
 Db 465 AAGCTGTTGGAGAAATGACATCCAGTTCTCAGCTGGCTACAGAAGTCAAATTTGTGA 524
 QY 442 AGAATGATAGCAGGATTTAGGAACTCAAGAAATTTCTACTACATCGTGCAGGAG 501
 Db 525 AAAATGTTGTTGTTGGAGTCCGAGAGACGAGACAAAATCTATCTTCTGTTGAAGAG 584
 QY 502 AGAAGAACTACAGGGAATCCCTAACCCACTGCAGGATTCGGGGTGAAGTCTAGCCATGC 561
 Db 585 AGAAGAACTACATTTGATGCCAGGACTACTGCCAGGAGAGAGTGGGACCTCAGCATGC 644
 QY 562 CCAGGATGAAGCTGCCACACACTATCCTGACTATGTTGCCAGAGATGGCTTTTTC 621
 Db 645 CTAAGGATGAGCAACTAATAGTTTGAATTCCTCTTACATTAATCATGCTGGGCTCTCA 704
 QY 622 GGGTGTTCATTGGCGTGAATGACCTTCAAGAGGAGGAGACAGTACATGTTTCACAGACAA 681
 Db 705 GAGTGTTCATTGGGATCAATGACTTGGAAAGAGAGGACACTTTTGTGTTCCGATCGCT 764
 QY 682 CTCACATGCAGAACTATAGCAACTGGAATGAGGGGAAACCCAGGACCCCTATGGTCA 741
 Db 765 CTCATATGCAGACCTTCAATAAATGGCGCCAGGAGAGAGAGAGAGAGAGAGAGAG 824
 QY 742 AGGACTGTGTGAGATGCTGAGCTCTGCAGATGGAATGACACAGAGTGCATCTTACCA 801
 Db 825 AAGACTGTGTGAGATGCTTCAATCCGGGGATGGAATGATGTTTCTGCTTATTACTA 884
 QY 802 TGTACTTTGCTGTGAGTTCATCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 861
 Db 885 TGTATTTTATTGTTGAGTTTGATAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 944
 QY 862 CTATTTTCTGCTGACCGCTCATTACA 886
 Db 945 CCAATCATATGTTATAGCATGGCA 969
 RESULT 14
 AR252616
 LOCUS 1238 bp DNA linear PAT 20-DEC-2002
 DEFINITION Sequence 356 from patent US 6478825.
 ACCESSION AR252616
 VERSION AR252616.1 GI:27300524
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 REFERENCE 1 (bases 1 to 1238)
 AUTHORS Winterbottom,J.M., Shimp,L., Boyce,T.M. and Kaes,D.
 TITLE Implant, method of making same and use of the implant for the treatment of bone defects
 JOURNAL Patent: US 6478825-A 356 12-NOV-2002;
 FEATURES
 source
 1..1238
 /organism="unknown"
 /mol_type="genomic DNA"
 ORIGIN
 Query Match 15.4%; Score 246; DB 6; Length 1238;
 Best Local Similarity 58.4%; Pred. No. 1.5e-51;
 Matches 429; Conservative 0; Mismatches 305; Indels 0; Gaps 0;
 QY 106 CTACCGCTGAAGTCTGTGCCACACACACAAATTTCCAGGAGAGAGAGAGAGAGATG 165
 Db 149 CTGGCGATGACCGCTGCTGTGCGATGCTTGTCCCTGGCTCTCAAGGGAGATCGGGAG 208
 QY 166 AAAAGAGAGATCCAGGAG 225
 Db 209 AGAAGGAGACAAAGGCGCCCGGAGCGCTGGAAGAGTCCGCCCAACGGGAGAGAGAG 268
 QY 226 GAATTAAG 285
 Db 269 GAGACATGGGGAG 328

286 TTGGAGAGAGGGTGACAAAGGGGAAAAAGTTTGGTGGAAATCTCTGGAGAAAAAGGCA 345
Db
329 TTGGCTCTAAAGGTGAGAAAGGAGATTCGGGTGACATAGGACCCCTTGTCTCTAATGGAG 388
2y
346 AAGCAGGTACTGTCTGTGATTTGTGGAAGATACCGGAAATTTGTGGACAACCTGGATATTA 405
Db
389 AACAGGCTCCCATGTGAGTGCAGCAGCTGCGCAAGCCATCGGGAGATGGACAAC 448
2y
406 GTATTGCCCGCTCAAGACATCTATGAGTTTGTCAAGATGTGATAGCAGGATAGGG 465
Db
449 AGGTCTCTCAGCTCAGCAGGAGCTCAAGTTTCATCAAGAAATGCTGCGCGGTGTCGCG 508
2y
466 AAATCTGAGAGAAATTTCTACTACATCTGTCAGGAAGAGAACTACAGGGAATCCCTAA 525
Db
509 AGACGAGAGCAAGATCTACTCTCTGTGTGAGGAGGAGCGCTACGCGGACGCCAGC 568
2y
526 CCCACTGAGAGATTCGGGGTGGAAATGTACCCATGCCCAAGAGTGAAGTGCACACAC 585
Db
569 TGTCTCTCAGGCGCGGGGCGACGCTGAGCATGCCCAAGGACGAGGCTGCCAATGGCC 628
2y
586 TCATCGCTGACTATGTTGCCAAGAGTGGCTTCTTTCCGGGTGTTTCATTGGCGTGAATGACC 645
Db
629 TGATGGCGCATACTCTGGCGCAAGCCGCGCTGGCCGCTGTCTTCATCGGCATCAAGACC 688
2y
646 TTGAAAGGAGGAGACAGTACATGTTTCACAGACAACTCCACTGCAGAACTATAGCACT 705
Db
689 TGGAGAGAGGGGCGCTTCTGTGACTCTGACCACTCCCGGCTGTCTTCATCGGCATCAAGT 748
2y
706 GGAATGAGGGGAAACCCAGACGACCCCTTATGTCATGAGGACTGTGTGGAGATGCTGAGCT 765
Db
749 GCGGAGCGGTGAGCCCAACATGCTTACAGAGGAGGACTGCGTGGAGATGGTGGCT 808
2y
766 CTGGCAGATGGAATGACACAGAGTGCCATCTTACCATGTACTTTGCTGTGATTCATCA 825
Db
809 CGGGGCGGTGGAACGACGTGGCGCTGCGACACCACTGATCTTCAATGTGTGATTTGACA 868
2y
826 AGAAGAAAAAGTAA 839
Db
869 AGGAGAACATGTGA 882

RESULT 15
AX403469 1238 bp DNA linear PAT 14-JUN-2002
LOCUS
DEFINITION Sequence 356 from Patent WO0073454.
ACCESSION AX403469
VERSION AX403469.1 GI:21436970
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1
REFERENCE
AUTHORS Ashkenazi,A.J., Baker,K.P., Botstein,D., Desnovers,L., Eaton,D.,
Ferrara,N., Gerber,H., Gerritsen,M., Goddard,A., Godowski,P.,
Grimaldi,C.J., Gurney,A.L., Kljavin,I., Napier,M.A., Pan,J.,
Paoni,N.F., Roy,M., Stewart,T.A., Tumas,D., Watanabe,C.K.,
Williams,P., Wood,W.I. and Zhang,Z.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
the same
JOURNAL Patent: WO 0073454-A 356 07-DEC-2000;
Genentech Inc. (US)
FEATURES
source
1..1238
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 15.4%; Score 246; DB 6; Length 1238;
Best Local Similarity 58.4%; Pred.No.1.5e-51;
Matches 429; Conservative 0; Mismatches 305; Indels 0; Gaps 0;

106 CTACCGCTGAAGTCTGTGCCACACACAAATTTTCCAGGACCCCAAGAGAGATGATGGTG 165
Db
149 CTGGCGATGACGCTCTCTGTGCAGATCTCTGCTCCCTCAAAGGGGATCGGGAG 208
2y
166 AAAAGGAGATCCAGAGAGAGAGGAAAGCATGCGAAATGGGACGATGGGGCGGAAAG 225
Db
209 AGAAGGAGACAAAAGGCGCCCGGACGCGCTTGGAAAGATCGGCCCAACGGGAGAAAAAG 268
2y
226 GAATTTAAAGGAGAACTGGGTGATATGGGAGATCGGGGCAATATTTGGCAAGACTGGGCCCA 285
Db
269 GAGACATGGGGAGCAAGAGACAGAAAGGCGATGTGGTCTCATGTGAAAAATTTGGTCCCA 328
2y
286 TTGGGAAAGAGGTGACAAAAGGGGAAAAAGTTTCTTGGAAATCTCTGGAGAAAAAGGCA 345
Db
329 TTGGCTCTAAAGGTGAGAAAGGAGATTCGGGTGACATAGGACCCCTGCTCTTAATGGAG 388
2y
346 AAGCAGGTACTGTCTGTGATTTGTGGAAGATACCGGAAATTTTGGACAACTGGATATTA 405
Db
389 AACAGGCTCCCATGTGAGTGCAGCAGCTGCGCAAGCCATCGGGAGATGGACAAC 448
2y
406 GTATTGCCCGCTCAAGACATCTATGAAATTTGTCAAGAAATGTGATAGAGGATAGGG 465
Db
449 AGGTCTCTCAGCTGACGAGGAGCTCAAGTTTCATCAAGAAATGCTGTCGCGGTGTGCGG 508
2y
466 AAATCTGAGAGAAATTTCTACTACATCTGTCAGGAAGATACCGGAAATTTTGGACAACTGGATATTA 525
Db
509 AGACGAGAGCAAGATCTACTCTCTGTGTGAGGAGGAGCGCTACGCGGACGCCAGC 568
2y
526 CCCACTGACAGATTCGGGGTGGAAATGCTAGCCATGCCCAAGGATGAAGTGCACACAC 585
Db
569 TGTCTCTCCAGGCGCGCGGGGCGACGCTGAGCATGCCCAAGGACGAGGCTGCCAATGGCC 628
2y
586 TCATCGCTGACTATGTTGCCAAGAGTGGCTTCTTTCCGGGTGTTTCATTGGCGTGAATGACC 645
Db
629 TGATGGCGCATACTCTGGCGCAAGCCGCGCTGGCCGCTGTCTTCATCGGCATCAAGACC 688
2y
646 TTGAAAGGAGGAGACAGTACATGTTTCACAGACAACTCCACTGCAGAACTATAGCACT 705
Db
689 TGGAGAGAGGGGCGCTTCTGTGACTCTGTGACCACTCCCGCATGCGGACCTTCAACAAAGT 748
2y
706 GGAATGAGGGGAAACCCAGGACCCCTTATGTCATGAGGACTGTGTGGAGATGCTGAGCT 765
Db
749 GCGGACGCGGTGAGCCCAACATGCTTACAGAGGAGGACTGCGTGGAGATGGTGGCT 808
2y
766 CTGGCAGATGGAATGACACAGAGTGCCATCTTACCATGTACTTTGCTGTGATTCATCA 825
Db
809 CGGGCGGTGGAACGACGTGGCGCTGCGACACCACTGATCTTCAATGTGTGATTTGACA 868
2y
826 AGAAGAAAAAGTAA 839
Db
869 AGGAGAACATGTGA 882

Search completed: February 23, 2004, 23:23:27
Job time : 6256 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

4 nucleic - nucleic search, using sw model

in on: February 23, 2004, 19:06:31 ; Search time 652 Seconds

(without alignments)

10392.448 Million cell updates/sec

file: US-09-600-932-1

effect score: 1595
sequence: 1 cagaatgaatggttttgc.....gatttaagaaacagagcc 1595

oring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

arched: 3373863 seqs, 2124099041 residues

tal number of hits satisfying chosen parameters: 6747726

inimum DB seq length: 0

aximum DB seq length: 2000000000

ost-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

atabase : N_Geneseq_29Jan04:*

- 1: Geneseq1980s:*
- 2: Geneseq1990s:*
- 3: Geneseq2000s:*
- 4: Geneseq2001as:*
- 5: Geneseq2001bs:*
- 6: Geneseq2002s:*
- 7: Geneseq2003as:*
- 8: Geneseq2003bs:*
- 9: Geneseq2003cs:*
- 10: Geneseq2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Query Match	Length	DB ID	Description
1	1595	100.0	1595	2	AAX88323 Human col
2	980.2	61.5	1016	2	AAX88323 Human PRO
3	980.2	61.5	1016	3	AAC78480 Human PRO
4	980.2	61.5	1016	4	AAS45974 Human DNA
5	980.2	61.5	1016	7	ABX78577 Human PRO
6	980.2	61.5	1016	7	ACA75549 Novel hum
7	980.2	61.5	1016	7	ACA71029 Human sec
8	980.2	61.5	1016	7	ACC87557 Human sec
9	980.2	61.5	1016	7	ACC86943 Human sec
10	980.2	61.5	1016	7	ACD04116 Human sec
11	980.2	61.5	1016	7	ACA69447 cDNA enco
12	980.2	61.5	1016	7	ACA90292 Novel hum
13	980.2	61.5	1016	7	ACC89399 Human sec
14	980.2	61.5	1016	7	ACA98190 Novel hum
15	980.2	61.5	1016	7	ACA93832 Human sec
16	980.2	61.5	1016	7	ACD15225 Human sec
17	980.2	61.5	1016	7	ACD08812 Human sec
18	980.2	61.5	1016	7	ACC96732 Human sec
19	980.2	61.5	1016	7	ACF15453 Human sec
20	980.2	61.5	1016	7	ACD42506 Novel hum
21	980.2	61.5	1016	7	ACA72820 Human PRO
22	980.2	61.5	1016	7	ACC02992 Novel hum
23	980.2	61.5	1016	7	ACD01807 Novel hum

ALIGNMENTS

RESULT 1

AAX88323
ID AAX88323 standard; cDNA; 1595 BP.

XX

AC AAX88323;

XX

DT 30-SEP-1999 (first entry)

XX

DE Human collectin cDNA.

XX

KW Collectin; human; antibacterial; antiviral; treatment; infection; ds.

XX

OS Homo sapiens.

XX

PH Key Location/Qualifiers

FT CDS 6...839

FT /*tag= a

FT /product= "collectin"

XX

PN WO9937767-A1.

XX

PD 29-JUL-1999.

XX

PF 24-JUL-1998; 98WO-JP003328.

XX

PR 23-JAN-1998; 98JP-00011281.

XX

PA (FUSO) FUSO PHARM IND LTD.

XX

PI Wakamiya N;

XX

DR WPI; 1999-458691/38..

XX

DR P-PSDB; AA25518.

XX

PT New collectin protein of human origin and DNA encoding it.

XX

PS Claim 2; Page 39-42; 58pp; Japanese.

XX

CC This invention describes the isolation and characterisation of a novel human collectin protein and its encoding polynucleotide. The human collectin exhibits antibacterial and antiviral activity and can be used as an agent for the treatment of human bacterial and viral infections.

XX

SQ Sequence 1595 BP; 444 A; 322 C; 382 G; 447 T; 0 U; 0 Other;

XX

Query Match				100.0%; Score 1595; DB 2; Length 1595;			
Best Local Similarity				100.0%; Pred No. 0;			
Matches 1595; Conservative				0; Mismatches 0; Indels 0; Gaps 0;			
2Y	1	CAGCAATGAATGGCTTGGCATCCCTTGGCTGCAAGAACCAATTTATCTCTGGTACTAT	60				
2b	1	CAGCAATGAATGGCTTGGCATCCCTTGGCTGCAAGAACCAATTTATCTCTGGTACTAT	60				
2Y	61	TTCTTTTGGCAATTCAGAGCTGGCTGCTGATATTTGATAGCGTCTACCGCTGAAGTCT	120				
2b	61	TTCTTTTGGCAATTCAGAGCTGGCTGCTGATATTTGATAGCGTCTACCGCTGAAGTCT	120				
2Y	121	GTGCCACACACAAATTCACAGGACCCCAAGAGAGATGATGGTGAAGAGAGATCCAG	180				
2b	121	GTGCCACACACAAATTCACAGGACCCCAAGAGAGATGATGGTGAAGAGAGATCCAG	180				
2Y	181	GAGAGAGGGAAGCATGGCAATGGAGCGCATGGGCGGCAAGGAATTAAGGAGAC	240				
2b	181	GAGAGAGGGAAGCATGGCAATGGAGCGCATGGGCGGCAAGGAATTAAGGAGAC	240				
2Y	241	TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCAATTGGGAAGAGGTG	300				
2b	241	TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCAATTGGGAAGAGGTG	300				
2Y	301	ACAAGGGGAAGAGTTTCTTGGATACCTGGAGAAAGCAAGCAGGTACTGTCT	360				
2b	301	ACAAGGGGAAGAGTTTCTTGGATACCTGGAGAAAGCAAGCAGGTACTGTCT	360				
2Y	361	GTGATTTGGGAAGTACCGGAATTTCTTGGCAAACTGGATATTAGTATTGCCCGCTCA	420				
2b	361	GTGATTTGGGAAGTACCGGAATTTCTTGGCAAACTGGATATTAGTATTGCCCGCTCA	420				
2Y	421	AGACATCTATGAATTTGTCAAGATGTGATAGCAGGATTAGGGAATCTGAAGAAAT	480				
2b	421	AGACATCTATGAATTTGTCAAGATGTGATAGCAGGATTAGGGAATCTGAAGAAAT	480				
2Y	481	TCTACTACATCGTCAGAGAGAGAACTACAGGGAATCCCTAAACCCACTGCAGGATTC	540				
2b	481	TCTACTACATCGTCAGAGAGAGAACTACAGGGAATCCCTAAACCCACTGCAGGATTC	540				
2Y	541	GGGTGGGAATGTAGCCATGCCAAGAGATGAAGTGCCTCAACACACTCATCGCTGACTATG	600				
2b	541	GGGTGGGAATGTAGCCATGCCAAGAGATGAAGTGCCTCAACACACTCATCGCTGACTATG	600				
2Y	601	TTGCCAAGAGTGGCTTCTTTCGGGTGTTCTATGGCGTGAATGACCTTGAAGGAGGGAC	660				
2b	601	TTGCCAAGAGTGGCTTCTTTCGGGTGTTCTATGGCGTGAATGACCTTGAAGGAGGGAC	660				
2Y	661	AGTACATGTTCAAGACAACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAAC	720				
2b	661	AGTACATGTTCAAGACAACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAAC	720				
2Y	721	CCAGGACCCCTATGGTCATGAGGACTGTGTGGAGATGCTGAGCTTGGCAGATGGAATG	780				
2b	721	CCAGGACCCCTATGGTCATGAGGACTGTGTGGAGATGCTGAGCTTGGCAGATGGAATG	780				
2Y	781	ACACAGAGTGCATCTTACCATTTGCTGTGAGTTTCATCAAGAGAAAGAAATTAAC	840				
2b	781	ACACAGAGTGCATCTTACCATTTGCTGTGAGTTTCATCAAGAGAAAGAAATTAAC	840				
2Y	841	TTCCCTCATCTACGATTTTCTGATTTTCTGACCGCTCATACAGTTATTTGTTATCCA	900				
2b	841	TTCCCTCATCTACGATTTTCTGATTTTCTGACCGCTCATACAGTTATTTGTTATCCA	900				
2Y	901	TCCTTTTTTCTGATTTACTACATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA	960				
2b	901	TCCTTTTTTCTGATTTACTACATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA	960				
2Y	961	CTGAGGTATGGAGCCCTCATCATGCTCTTTTGTGATGATTTTCAATTTTTCACAT	1020				
2b	961	CTGAGGTATGGAGCCCTCATCATGCTCTTTTGTGATGATTTTCAATTTTTCACAT	1020				
2Y	1021	GGTATGTTATTGACCCCAATAACTCGCCAGGTTACATGGGCTTTGAGAGAGAAATTTAATT	1080				

Db	1021	GGTATGTTATTGACCCCAATAACTCGCCAGGTTACATGGTCTTGAGAGAGAAATTTAATT	1080
Qy	1081	ACTAATTTGGCAGGATAGTTGGTTGCTATATGTCAAATGAGTTGTTCTCTTGGTATT	1140
Db	1081	ACTAATTTGGCAGGATAGTTGGTTGCTATATGTCAAATGAGTTGTTCTCTTGGTATT	1140
Qy	1141	TGCTCTACCATCTCTCCCTAGAGCACTCTGTCTCTATCCAGTGGATAATTTCCAGTTT	1200
Db	1141	TGCTCTACCATCTCTCCCTAGAGCACTCTGTCTCTATCCAGTGGATAATTTCCAGTTT	1200
Qy	1201	ACTGGTGATGATTAGGAGGTTTGTGATGGTTAGGCTAACCTGGCCCTGGCCCAAGCCAG	1260
Db	1201	ACTGGTGATGATTAGGAGGTTTGTGATGGTTAGGCTAACCTGGCCCTGGCCCAAGCCAG	1260
Qy	1261	ACATGTACAAAGGCTTTCTGTGAGCAATGATAAGATCTTTGAATCCAAGATGCCAGATG	1320
Db	1261	ACATGTACAAAGGCTTTCTGTGAGCAATGATAAGATCTTTGAATCCAAGATGCCAGATG	1320
Qy	1321	TTTTACAGTCAACCCCTATGGCCATGGCTATACCTTGGAAAGTTCTCTTGTGGCACA	1380
Db	1321	TTTTACAGTCAACCCCTATGGCCATGGCTATACCTTGGAAAGTTCTCTTGTGGCACA	1380
Qy	1381	CATAGAAATGCTTTTAAACCCCAAGCCCTTATATGGGGACTTCTAGCTTTGTCTTGT	1440
Db	1381	CATAGAAATGCTTTTAAACCCCAAGCCCTTATATGGGGACTTCTAGCTTTGTCTTGT	1440
Qy	1441	CAGCATTGTGGAAATGATAAATCTCTTTTGTCTTGTGATCTATCGATTTCACTAACA	1500
Db	1441	CAGCATTGTGGAAATGATAAATCTCTTTTGTCTTGTGATCTATCGATTTCACTAACA	1500
Qy	1501	TATACCAAGTGTGGTCTTTGAACCCCTTTCTAGGCTCACACCTTAATCTCAGGCCCT	1560
Db	1501	TATACCAAGTGTGGTCTTTGAACCCCTTTCTAGGCTCACACCTTAATCTCAGGCCCT	1560
Qy	1561	ATATAGTCACTTTGATTAAAGAAACCGAGCC	1595
Db	1561	ATATAGTCACTTTGATTAAAGAAACCGAGCC	1595
RESULT 2			
AAZ33973			
ID	AAZ33973 standard; cDNA; 1016 BP.		
XX	AAZ33973;		
AC	07-DEC-1999 (first entry)		
DT	Human PRO702 nucleotide sequence.		
XX	Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;		
KW	probe; blood coagulation disorder; cancer; cellular adhesion disorder;		
KW	secreted protein; transmembrane protein; ss.		
XX	Homo sapiens.		
OS	99WO-US005028.		
XX	WO9946281-A2.		
PN	16-SEP-1999.		
PD	08-MAR-1999;		
XX	98US-0077450P.		
PF	98US-0077632P.		
XX	98US-0077641P.		
PR	98US-0077649P.		
PR	98US-0077791P.		
PR	98US-0078004P.		
PR	98US-00040220.		
PR	98US-0078866P.		
PR	98US-0078910P.		
PR	98US-0078936P.		
PR	98US-0078939P.		

```
R 25-MAR-1998; 98US-0079294P.
R 26-MAR-1998; 98US-0079656P.
R 27-MAR-1998; 98US-0079663P.
R 27-MAR-1998; 98US-0079664P.
R 27-MAR-1998; 98US-0079689P.
R 27-MAR-1998; 98US-0079728P.
R 27-MAR-1998; 98US-0079786P.
R 30-MAR-1998; 98US-0079920P.
R 30-MAR-1998; 98US-0079923P.
R 31-MAR-1998; 98US-0080105P.
R 31-MAR-1998; 98US-0080107P.
R 31-MAR-1998; 98US-0080165P.
R 31-MAR-1998; 98US-0080194P.
R 01-APR-1998; 98US-0080327P.
R 01-APR-1998; 98US-0080328P.
R 01-APR-1998; 98US-0080333P.
R 01-APR-1998; 98US-0080334P.
R 08-APR-1998; 98US-0081049P.
R 08-APR-1998; 98US-0081070P.
R 08-APR-1998; 98US-0081071P.
R 09-APR-1998; 98US-0081195P.
R 09-APR-1998; 98US-0081203P.
R 09-APR-1998; 98US-0081229P.
R 15-APR-1998; 98US-0081817P.
R 15-APR-1998; 98US-0081838P.
R 15-APR-1998; 98US-0081952P.
R 15-APR-1998; 98US-0081955P.
R 21-APR-1998; 98US-0082568P.
R 21-APR-1998; 98US-0082569P.
R 22-APR-1998; 98US-0082700P.
R 22-APR-1998; 98US-0082704P.
R 23-APR-1998; 98US-0082804P.
R 23-APR-1998; 98US-0082767P.
R 23-APR-1998; 98US-0082796P.
R 27-APR-1998; 98US-0083336P.
R 28-APR-1998; 98US-0083322P.
R 29-APR-1998; 98US-0083392P.
R 29-APR-1998; 98US-0083495P.
R 29-APR-1998; 98US-0083496P.
R 29-APR-1998; 98US-0083499P.
R 29-APR-1998; 98US-0083500P.
R 29-APR-1998; 98US-0083545P.
R 29-APR-1998; 98US-0083554P.
R 29-APR-1998; 98US-0083558P.
R 29-APR-1998; 98US-0083559P.
R 30-APR-1998; 98US-0083742P.
R 05-MAY-1998; 98US-0084366P.
R 06-MAY-1998; 98US-0084414P.
R 06-MAY-1998; 98US-0084411P.
R 07-MAY-1998; 98US-0084598P.
R 07-MAY-1998; 98US-0084600P.
R 07-MAY-1998; 98US-0084627P.
R 07-MAY-1998; 98US-0084637P.
R 07-MAY-1998; 98US-0084639P.
R 07-MAY-1998; 98US-0084640P.
R 07-MAY-1998; 98US-0084643P.
R 13-MAY-1998; 98US-0085323P.
R 13-MAY-1998; 98US-0085338P.
R 13-MAY-1998; 98US-0085339P.
R 15-MAY-1998; 98US-0085573P.
R 15-MAY-1998; 98US-0085579P.
R 15-MAY-1998; 98US-0085580P.
R 15-MAY-1998; 98US-0085582P.
R 15-MAY-1998; 98US-0085689P.
R 15-MAY-1998; 98US-0085697P.
R 15-MAY-1998; 98US-0085700P.
R 18-MAY-1998; 98US-0085704P.
R 18-MAY-1998; 98US-0086023P.
R 22-MAY-1998; 98US-0086392P.
R 22-MAY-1998; 98US-0086414P.
R 22-MAY-1998; 98US-0086430P.
R 22-MAY-1998; 98US-0086486P.
R 28-MAY-1998; 98US-0087098P.

PR 28-MAY-1998; 98US-0087106P.
PR 28-MAY-1998; 98US-0087208P.
PR 30-JUL-1998; 98US-0094651P.
PR 11-SEP-1998; 98US-0100038P.
XX (GETH ) GENENTECH INC.
XX Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;
XX MPI; 1999-551358/46.
XX P-PSDB; AAY41698.
XX New secreted and transmembrane polypeptides and their polynucleotides,
XX useful for treating blood coagulation disorders, cancers and cellular
XX adhesion disorders.
XX Claim 2; Fig 36; 530pp; English.
XX The present invention describes secreted and transmembrane polypeptides
XX and their polynucleotides. The nucleotide sequences are useful as sources
XX of probes, primers, for chromosome mapping, and for generation of
XX antisense sequences. They can also be used to create transgenic animals.
XX The proteins can be used to treat a variety of diseases and disorders,
XX depending on their function. Diseases that may be treated include blood
XX coagulation disorders, cancers and cellular adhesion disorders. They may
XX also be used to raise antibodies. AAZ33891 to AAZ34338, and AAY41685 to
XX AAY41774 represent polynucleotide and polypeptide sequence given in the
XX exemplification of the present invention
XX
XX Sequence 1016 BP; 312 A; 197 C; 261 G; 246 T; 0 U; 0 Other;

Query Match .61.5%; Score 980.2; DB 2; Length 1016;
Best Local Similarity 99.7%; Pred. No. 1.1e-279;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CAGCAATGAATGGCTTTCATCTTGTTCGACGAAACCAATTTATCTCTGTGTACTAT 60
DB 17 CAGCAATGAATGGCTTTCATCTTGTTCGACGAAACCAATTTATCTCTGTGTACTAT 76
QY 61 TTCCTTTGCAATTCAGAGTCGGTCTGGATTTGATAGCCGTCCTACCGTGAAGTCT 120
DB 77 TTCCTTTGCAATTCAGAGTCGGTCTGGATTTGATAGCCGTCCTACCGTGAAGTCT 136
QY 121 GTGCCACACACACATTTCCACGAGCCCAAGCAGATGATGGTGAAGGAGATCCAG 180
DB 137 GTGCCACACACACATTTCCACGAGCCCAAGCAGATGATGGTGAAGGAGATCCAG 196
QY 181 GAGAAGAGGGAAGCATGGCAAAAGTGGGACGCGATGGGCGGCAAAAGGAATTAAGGAGAAC 240
DB 197 GAGAAGAGGGAAGCATGGCAAAAGTGGGACGCGATGGGCGGCAAAAGGAATTAAGGAGAAC 256
QY 241 TCGGTGATATGGAGATCGGGGCAATATTGCAAGACTGGGCCCATTTGGGAGNAGGGTG 300
DB 257 TCGGTGATATGGAGATCGGGGCAATATTGCAAGACTGGGCCCATTTGGGAGNAGGGTG 316
QY 301 ACAAAAGGGGAAAAGGTTTGTTCGAATACCTCGAGAAAAGGCAAAAGCAGGACTCTCTCT 360
DB 317 ACAAAAGGGGAAAAGGTTTGTTCGAATACCTCGAGAAAAGGCAAAAGCAGGACTCTCTCT 376
QY 361 GTGATTGTGGAAGATACCGGAAAATTTGTTGCAAACTGGATATTAGTATTGCCCGGTCTCA 420
DB 377 GTGATTGTGGAAGATACCGGAAAATTTGTTGCAAACTGGATATTAGTATTGCCCGGTCTCA 436
QY 421 AGACATCTATGAATTTGTCGAAGATGTGATAGCAGGATTTAGGGAACCTGAAGAGAAAT 480
DB 437 AGACATCTATGAATTTGTCGAAGATGTGATAGCAGGATTTAGGGAACCTGAAGAGAAAT 496
QY 481 TCTACTACATCGTCGAGGAAGAGAACTACAGGGAATCCCTAACCCACTGCGAGGATTC 540
DB 497 TCTACTACATCGTCGAGGAAGAGAACTACAGGGAATCCCTAACCCACTGCGAGGATTC 556
QY 541 GGGGTGGGAATGCTAGCCATGCCCAAGGATGAAGTGGCCCAACACACTCATGCTCAGTATG 600
```

```

Db 557 GGGGTGAATGCTAGCCATGCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATG 616
QY 601 TTGCCAAGAGTGGCTTCTTTGGGTGTTTCATTCGCGTGAATGACCTTGAAGAGGAGGAC 660
Db 617 TTGCCAAGAGTGGCTTCTTTGGGTGTTTCATTCGCGTGAATGACCTTGAAGAGGAGGAC 676
QY 661 AGTACATGTTTCACAGACAACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 720
Db 677 AGTACATGTTTCACAGACAACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 736
QY 721 CCAGGACCCCTATGCTATGAGAGCTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
Db 737 CCAGGACCCCTATGCTATGAGAGCTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCCATCTTACCATGACTTTGCTGTGAGTTTCATCAAGAAAGAAAGTAAC 840
Db 797 ACACAGAGTGCCATCTTACCATGACTTTGCTGTGAGTTTCATCAAGAAAGAAAGTAAC 856
QY 841 TTCCCTCATCTTACGTATTTGCTATTTCCCTGTGACCGTCATACAGTTATTTGTTATCCA 900
Db 857 TTCCCTCATCTTACGTATTTGCTATTTCCCTGTGACCGTCATACAGTTATTTGTTATCCA 916
QY 901 TCCCTTTTTCCTGATGTTACTACATTTGATCTGAGTCAACATAGCTAGAAATGCTAAA 960
Db 917 TCCCTTTTTCCTGATGTTACTACATTTGATCTGAGTCAACATAGCTAGAAATGCTAAA 976
QY 961 CTGAGGTATGGAGCCTCCATCATCA 985
Db 977 CTCAGGTATGGAGCCTCCATCATCA 1001

RESULT 3
AAC78480
ID AAC78480 standard; cDNA; 1016 BP.
XX
AC AAC78480;
XX
DT 08-FEB-2001 (first entry)
XX
DE Human PRO702 (UNQ366) nucleotide sequence SEQ ID NO:96.
XX
KW Human; secreted protein; transmembrane protein; PRO; EST; cytosolic;
KW expressed sequence tag; detection; cancer; ss.
XX
OS Homo sapiens.
XX
PN WC200053756-A2.
XX
PD 14-SEP-2000.
XX
PF 18-FEB-2000; 2000WC-US004341.
XX
PR 08-MAR-1999; 99WO-US005028.
PR 12-MAR-1999; 99US-0123957P.
PR 29-MAR-1999; 99US-0126773P.
PR 21-APR-1999; 99US-0130232P.
PR 28-APR-1999; 99US-0131445P.
PR 14-MAY-1999; 99US-0134287P.
PR 23-JUN-1999; 99US-0141037P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028333.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 05-JAN-2000; 2000WO-US000277.
PR 05-JAN-2000; 2000WO-US000376.
XX
XX (GETH ) GENENTECH INC.
XX

```

```

PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,
PI Ferrara N, Filyaroff E, Fong S, Gao W, Garber H, Gerritsen ME,
PI Goddard A, Godowski P, Grimaldi CJ, Gurney AL, Hillan KJ, Shelton DL,
PI Kijavini IU, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Stewart TR,
XX Stewart TR, Williams PM, Wood WI;
DR WPI; 2000-611443/58.
DR P-PSDB; AAB44254.
XX
PT Novel PRO polypeptides and polynucleotides used in detection methods, to
PT target bioactive molecules to specific cells, and to modulate cellular
PT activities.
XX
PS Claim 2; Fig 36; 636pp; English.
XX
CC AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence
CC tag) sequences which encode secreted or transmembrane PRO polypeptides.
CC The PRO polynucleotides and polypeptides have cytotstatic activity. The
CC polynucleotides and polypeptides can be used for detecting the presence
CC of PRO polypeptides in samples, for linking bioactive molecules to cells
CC and for modulating biological activities of cells, using the polypeptides
CC for specific targeting. The polypeptide targeting can be used to kill the
CC target cells, e.g. for the treatment of cancers. The polypeptide pairs
CC provide specific targeting of bioactive molecules to cells. AAC78600 to
CC AAC78987 represent PCR primers and probes used in the isolation of the
CC PRO polynucleotide sequences
XX
SQ Sequence 1016 BP; 312 A; 197 C; 261 G; 246 T; 0 U; 0 Other;
XX
Query Match 61.5%; Score 980.2; DB 3; Length 1016;
Best Local Similarity 99.7%; Pred. No. 1.le-279;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 CAGCAATGAATGGCTTTGCTATCTTCTGCTGCAAGAAACCAATTTATCTCTCTGGTACTAT 60
Db 17 CAGCAATGAATGGCTTTGCTATCTTCTGCTGCAAGAAACCAATTTATCTCTCTGGTACTAT 76
QY 61 TTTCTTTTGCAATTCAGAGTCTGGCTCTGGATATTGATAGCCCTCTACCGTCTGAAGTCT 120
Db 77 TTTCTTTTGCAATTCAGAGTCTGGCTCTGGATATTGATAGCCCTCTACCGTCTGAAGTCT 136
QY 121 GTGCCACACACAAATTTCCAGGACCCAAAGAGATGATGTGAAAGAGAGATCCAG 180
Db 137 GTGCCACACACAAATTTCCAGGACCCAAAGAGATGATGTGAAAGAGAGATCCAG 196
QY 181 GAGAAGAGGGAACATGCGCAAGTGGGACGTCATGGGCGAAGGAAATTAAGAGGAAC 240
Db 197 GAGAAGAGGGAACATGCGCAAGTGGGACGTCATGGGCGAAGGAAATTAAGAGGAAC 256
QY 241 TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG 300
Db 257 TGGGTGATATGGGAGATCAGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG 316
QY 301 ACAAGGGGAAAAAGTTTCTTGGATACCTCGAGAAAGCAAGCAGGTACTGTCT 360
Db 317 ACAAGGGGAAAAAGTTTCTTGGATACCTCGAGAAAGCAAGCAGGTACTGTCT 376
QY 361 GTGATTGTGGAAGATACCGGAAATTTTGGACAACCTGGATATTAGTATTTGCCCGCTCA 420
Db 377 GTGATTGTGGAAGATACCGGAAATTTTGGACAACCTGGATATTAGTATTTGCCCGCTCA 436
QY 421 AGACATCTATGAAAGTTTGTCAAGNATGTGATAGCGGATAGGGAACCTGAGAGAAAT 480
Db 437 AGACATCTATGAAAGTTTGTCAAGNATGTGATAGCGGATAGGGAACCTGAGAGAAAT 496
QY 481 TCTACTACATCGTCAGGAAGAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC 540
Db 497 TCTACTACATCGTCAGGAAGAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC 556
QY 541 GGGGTGGAATCTAGCCATGCCCAAGGATGAGCTGCCACACACTCTCGCTGACTATG 600
Db 557 GGGGTGGAATCTAGCCATGCCCAAGGATGAGCTGCCACACACTCTCGCTGACTATG 616

```


PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0088909P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089553P.
PR 18-JUN-1998; 98US-0089508P.
PR 19-JUN-1998; 98US-0089552P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 26-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-00105413.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091832P.
PR 04-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 17-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098016P.
PR 01-SEP-1998; 98US-0098716P.
PR 02-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.

PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 13-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 23-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 23-SEP-1998; 98US-0102207P.
PR 23-SEP-1998; 98US-0102240P.
PR 23-SEP-1998; 98US-0102330P.
PR 23-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-0016897B.

Query Match 51.5%; Score 980.2; DB 7; Length 1016;

Best Local Similarity 99.7%; Pred. No. 1.1e-279;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CAGCAATGAATGGCTTTGCATCCTTTGCTTCGAAAGAAACCAATTTATCTCTGCTGCTAT 60
Db 17 CAGCAATGAATGGCTTTGCATCCTTTGCTTCGAAAGAAACCAATTTATCTCTGCTGCTAT 76
Qy 61 TTCTTTTGCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCGCTCTACCGCTGAAGTCT 120
Db 77 TTCTTTTGCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCGCTCTACCGCTGAAGTCT 136
Qy 121 GTGCCACACACACAATTTCCAGCAGACCCAAAGGAGATGATGGTGAAAAAGGAGATCCAG 180
Db 137 GTGCCACACACACAATTTCCAGCAGACCCAAAGGAGATGATGGTGAAAAAGGAGATCCAG 196
Qy 181 GAGAGAGGGAAGCATGGCAAAAGTGGGACCGCATGGGCCCGAAAGGAATTAAGAGAAC 240
Db 197 GAGAGAGGGAAGCATGGCAAAAGTGGGACCGCATGGGCCCGAAAGGAATTAAGAGAAC 256
Qy 241 TGGGTGATATGGAGATCGGGCAATATTGGCAAGCTGGGCCCATTTGGGAAGAGGGTG 300
Db 257 TGGGTGATATGGAGATCAGGGCAATATTGGCAAGCTGGGCCCATTTGGGAAGAGGGTG 316
Qy 301 ACAAGGGGAAAAAGTTTGGCTTGGAAATACCTGGAGAAAAAGGCAAGCAGGTACTGCT 360
Db 317 ACAAGGGGAAAAAGTTTGGCTTGGAAATACCTGGAGAAAAAGGCAAGCAGGTACTGCT 376
Qy 361 GTGATTGTGGAAGATACCGGAATTTGTTGGACAACTGGATATTAGTATTCCTCCGGCTCA 420
Db 377 GTGATTGTGGAAGATACCGGAATTTGTTGGACAACTGGATATTAGTATTCCTCCGGCTCA 436
Qy 421 AGCATCTATGAAGTTTGTCAAGATGTGATAGCAGGATTAGGAAACTGAAGAGAAAT 480
Db 437 AGCATCTATGAAGTTTGTCAAGATGTGATAGCAGGATTAGGAAACTGAAGAGAAAT 496

```
QY 481 TCTACTACATCGTCAGGAGAGAGAACTACAGGAATCCCTAACCCACTGCAGGATTC 540
Db 497 TCTACTACATCGTCAGGAGAGAGAACTACAGGAATCCCTAACCCACTGCAGGATTC 556
QY 541 GGGGTGGAATGCTAGCCATGCCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATG 600
Db 557 GGGGTGGAATGCTAGCCATGCCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATG 616
QY 601 TTGCCAAGAGTGGCTCTTTTGGGTGTTTCATTTGGCGTGAATGACCTTGAAGGGAGGGAC 660
Db 617 TTGCCAAGAGTGGCTCTTTTGGGTGTTTCATTTGGCGTGAATGACCTTGAAGGGAGGGAC 676
QY 661 AGTACATGTTTCACAGACACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 720
Db 677 AGTACATGTTTCACAGACACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 736
QY 721 CCAGCGACCCCTATGGTCATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
Db 737 CCAGCGACCCCTATGGTCATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCATCTTACCATGTACTTTGCTGTGAGTTTCATCAAGAAAGAAAGTAAC 840
Db 797 ACACAGAGTGCATCTTACCATGTACTTTGCTGTGAGTTTCATCAAGAAAGAAAGTAAC 856
QY 841 TTCCCTCATCTTACGATTTGCTATTTTCTGTCGACCGTCACCTCATACAGTTATGTTATCCA 900
Db 857 TTCCCTCATCTTACGATTTGCTATTTTCTGTCGACCGTCACCTCATACAGTTATGTTATCCA 916
QY 901 TCTTTTTTCTGATTTGCTACATTTTGTCTGATGCTCAACATAGTAGAAATGCTTAAA 960
Db 917 TCTTTTTTCTGATTTGCTACATTTTGTCTGATGCTCAACATAGTAGAAATGCTTAAA 976
QY 961 CTGAGTATGAGGCTTCATCATCA 985
Db 977 CTGAGTATGAGGCTTCATCATCA 1001

RESULT 6
ACA75549
ID ACA75549 standard; cDNA; 1016 BP.
XX
AC ACA75549;
XX
DT
DT 07-JUL-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO702 cDNA.
XX
KW Human; secreted and transmembrane protein; PRO; gene therapy;
KW tumour necrosis factor-alpha release; TNF-alpha release;
KW chondrocyte proliferation; chondrocyte differentiation; tumour;
KW adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour; gene; ss.
XX
OS Homo sapiens.
XX
XX US2003032127-A1.
XX
XX
PD 13-FEB-2003.
XX
XX 26-JUN-2002; 2002US-00183012.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063122P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0063876P.
PR 10-JUN-1998; 97US-008825P.
PR 10-JUN-1998; 97US-008826P.
PR 11-JUN-1998; 97US-008861P.
PR 11-JUN-1998; 97US-008863P.
PR 12-JUN-1998; 97US-008876P.
PR 12-JUN-1998; 97US-0089105P.
PR 16-JUN-1998; 97US-0089512P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 97US-0077450P.
PR 11-MAR-1998; 97US-0077632P.
PR 11-MAR-1998; 97US-0077649P.
PR 20-MAR-1998; 97US-0078886P.
PR 20-MAR-1998; 97US-0078939P.
PR 27-MAR-1998; 97US-0079664P.
PR 27-MAR-1998; 97US-0079786P.
PR 31-MAR-1998; 97US-0080107P.
PR 31-MAR-1998; 97US-0080194P.
PR 01-APR-1998; 97US-0080327P.
PR 01-APR-1998; 97US-0080333P.
PR 08-APR-1998; 97US-0081049P.
PR 08-APR-1998; 97US-0081070P.
PR 09-APR-1998; 97US-0081195P.
PR 15-APR-1998; 97US-0081838P.
PR 21-APR-1998; 97US-0082568P.
PR 21-APR-1998; 97US-0082569P.
PR 22-APR-1998; 97US-0082704P.
PR 22-APR-1998; 97US-0082797P.
PR 28-APR-1998; 97US-0083322P.
PR 29-APR-1998; 97US-0083495P.
PR 29-APR-1998; 97US-0083496P.
PR 29-APR-1998; 97US-0083499P.
PR 29-APR-1998; 97US-0083559P.
PR 05-MAY-1998; 97US-0084366P.
PR 06-MAY-1998; 97US-0084414P.
PR 07-MAY-1998; 97US-0084639P.
PR 07-MAY-1998; 97US-0084640P.
PR 07-MAY-1998; 97US-0084643P.
PR 15-MAY-1998; 97US-0085579P.
PR 15-MAY-1998; 97US-0085580P.
PR 15-MAY-1998; 97US-0085582P.
PR 15-MAY-1998; 97US-0085700P.
PR 18-MAY-1998; 97US-0086023P.
PR 22-MAY-1998; 97US-0086392P.
PR 22-MAY-1998; 97US-0086486P.
PR 28-MAY-1998; 97US-0087098P.
PR 28-MAY-1998; 97US-0087208P.
PR 02-JUN-1998; 97US-0087609P.
PR 02-JUN-1998; 97US-0087759P.
PR 03-JUN-1998; 97US-0087827P.
PR 04-JUN-1998; 97US-0088025P.
PR 04-JUN-1998; 97US-0088028P.
PR 04-JUN-1998; 97US-0088029P.
PR 04-JUN-1998; 97US-0088033P.
PR 04-JUN-1998; 97US-0088326P.
PR 05-JUN-1998; 97US-0088167P.
PR 05-JUN-1998; 97US-0088202P.
PR 05-JUN-1998; 97US-0088212P.
PR 05-JUN-1998; 97US-0088217P.
PR 09-JUN-1998; 97US-0088655P.
PR 10-JUN-1998; 97US-0088722P.
PR 10-JUN-1998; 97US-0088738P.
PR 10-JUN-1998; 97US-0088740P.
PR 10-JUN-1998; 97US-0088811P.
PR 10-JUN-1998; 97US-0088824P.
PR 10-JUN-1998; 97US-0088825P.
PR 10-JUN-1998; 97US-0088826P.
PR 11-JUN-1998; 97US-0088861P.
PR 11-JUN-1998; 97US-0088863P.
PR 11-JUN-1998; 97US-0088876P.
PR 12-JUN-1998; 97US-0089090P.
PR 12-JUN-1998; 97US-0089105P.
PR 16-JUN-1998; 97US-0089512P.
```

R	16-JUN-1998;	98US-0089514P.	PR	23-SEP-1998;	98US-0101471P.	Query Match	61.5%;	Score 980.2;	DB 7;	Length 1016;
R	17-JUN-1998;	98US-0089538P.	PR	23-SEP-1998;	98US-0101472P.	Best Local Similarity	99.7%;	Pred. No. 1.e-279;		
R	17-JUN-1998;	98US-0089598P.	PR	23-SEP-1998;	98US-0101475P.	Matches 982;	Conservative	0;	Mismatches 3;	Indels 0;
R	17-JUN-1998;	98US-0089653P.	PR	23-SEP-1998;	98US-0101477P.					Gaps 0;
R	18-JUN-1998;	98US-0089908P.	PR	24-SEP-1998;	98US-0101738P.	QY	1	CAGCAATGAATGGCTTTGCATCCTTGCCTCGAAGAAACCAATTTATCCTCTCGGTACTAT	60	
R	19-JUN-1998;	98US-0089952P.	PR	24-SEP-1998;	98US-0101739P.	DB	17	CAGCAATGAATGGCTTTGCATCCTTGCCTCGAAGAAACCAATTTATCCTCTCGGTACTAT	76	
R	22-JUN-1998;	98US-0090246P.	PR	24-SEP-1998;	98US-0101743P.	QY	61	TTCTTTTGCAAATTCAGAGTCTGGGTCTGGATATTGATAGCGCTCTACCGCTGAAGTCT	120	
R	22-JUN-1998;	98US-0090252P.	PR	24-SEP-1998;	98US-0101922P.	DB	77	TTCTTTTGCAAATTCAGAGTCTGGGTCTGGATATTGATAGCGCTCTACCGCTGAAGTCT	136	
R	22-JUN-1998;	98US-0090254P.	PR	25-SEP-1998;	98US-0101786P.	QY	121	GTGCCACACACAAATTCACAGGATCCCAAGAGATGATGTTGAAAGAGAGATCCAG	180	
R	24-JUN-1998;	98US-0090429P.	PR	25-SEP-1998;	98US-0102207P.	DB	137	GTGCCACACACAAATTCACAGGATCCCAAGAGATGATGTTGAAAGAGAGATCCAG	196	
R	24-JUN-1998;	98US-0090435P.	PR	29-SEP-1998;	98US-0102240P.	QY	181	GAGAAGAGGGAAGCATGGCAAGTGGAGCGCATGGGGCCGAAAGGAATTTAAAGGAGAAC	240	
R	24-JUN-1998;	98US-0090444P.	PR	29-SEP-1998;	98US-0102330P.	DB	197	GAGAAGAGGGAAGCATGGCAAGTGGAGCGCATGGGGCCGAAAGGAATTTAAAGGAGAAC	256	
R	24-JUN-1998;	98US-0090461P.	PR	29-SEP-1998;	98US-0102331P.	QY	241	TGGGTGATATGGAGATCGGGGCAATATTGGCAAGATCGGGCCCATTTGGGAAGAGGGTG	300	
R	24-JUN-1998;	98US-0090535P.	PR	30-SEP-1998;	98US-0102487P.	DB	257	TGGGTGATATGGAGATCAGGGCAATATTGGCAAGATCGGGCCCATTTGGGAAGAGGGTG	316	
R	25-JUN-1998;	98US-0090540P.	PR	30-SEP-1998;	98US-0102570P.	QY	301	ACAAAGGGGAAAGGTTTGTCTGGATACCTGGAGAAAGGCAAGCAGAGTACTGTCT	360	
R	25-JUN-1998;	98US-0090676P.	PR	01-OCT-1998;	98US-0102571P.	DB	317	ACAAAGGGGAAAGGTTTGTCTGGATACCTGGAGAAAGGCAAGCAGAGTACTGTCT	376	
R	25-JUN-1998;	98US-0090688P.	PR	01-OCT-1998;	98US-0102687P.	QY	361	GTGATTGTGGAAGTACCGGAAATTTGTGGACAACTGGATATTAGTATTGCCCGGTCA	420	
R	25-JUN-1998;	98US-0090690P.	PR	02-OCT-1998;	98US-0102965P.	DB	377	GTGATTGTGGAAGTACCGGAAATTTGTGGACAACTGGATATTAGTATTGCCCGGTCA	436	
R	25-JUN-1998;	98US-0090694P.	PR	02-OCT-1998;	98US-0103258P.	QY	421	AGACATCTATGAAGTTTGTCAAGATCTGATAGCAGGATTTAGGGAACCTGAAGAGAAAT	480	
R	25-JUN-1998;	98US-0090695P.	PR	02-OCT-1998;	98US-0103259P.	DB	437	AGACATCTATGAAGTTTGTCAAGATCTGATAGCAGGATTTAGGGAACCTGAAGAGAAAT	496	
R	25-JUN-1998;	98US-0090696P.	PR	02-OCT-1998;	98US-0103260P.	QY	481	TCTACTACATCGTCAGGAGACAGAAACTACAGGGAATCCCTAACCCACTGCAGGATTC	540	
R	25-JUN-1998;	98US-0090697P.	PR	02-OCT-1998;	98US-0103261P.	DB	497	TCTACTACATCGTCAGGAGACAGAAACTACAGGGAATCCCTAACCCACTGCAGGATTC	556	
R	25-JUN-1998;	98US-0090698P.	PR	02-OCT-1998;	98US-0103262P.	QY	541	GGGGTGGAAATGCTAGCCATGCCAAGGATGAGTGCACACACTCATCGTACTATG	600	
R	25-JUN-1998;	98US-0090699P.	PR	02-OCT-1998;	98US-0103263P.	DB	557	GGGGTGGAAATGCTAGCCATGCCAAGGATGAGTGCACACACTCATCGTACTATG	616	
R	25-JUN-1998;	98US-0090700P.	PR	02-OCT-1998;	98US-0103264P.	QY	601	TTGCCAAGAGTGGCTTCTTTTCGGGTGTTTTCATTGGCGTGAATGACCTTTGAAAGGAGGAC	660	
R	25-JUN-1998;	98US-0090701P.	PR	02-OCT-1998;	98US-0103265P.	DB	617	TTGCCAAGAGTGGCTTCTTTTCGGGTGTTTTCATTGGCGTGAATGACCTTTGAAAGGAGGAC	676	
R	25-JUN-1998;	98US-0090702P.	PR	02-OCT-1998;	98US-0103266P.	QY	661	AGTACATGTTTACAGACAACTCCACTCGAGAACTATAGCAACTGAAATGAGGGGGAAC	720	
R	25-JUN-1998;	98US-0090703P.	PR	02-OCT-1998;	98US-0103267P.	DB	677	AGTACATGTTTACAGACAACTCCACTCGAGAACTATAGCAACTGAAATGAGGGGGAAC	736	

```
QY 721 CCAGGACCCCTATGCTCATGAGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
Db 737 CCAGGACCCCTATGCTCATGAGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
2Y 751 ACACAGAGTGCCATCTTACCATGTACTTTCTGTGAGTTCATCAAGAAGAAAAGTAAC 840
Db 797 ACACAGAGTGCCATCTTACCATGTACTTTCTGTGAGTTCATCAAGAAGAAAAGTAAC 856
2Y 841 TTCCTCATCTAGTATTGCTATTTCCTGTCGACCGTCATTACAGTTATTGTTATCCA 900
Db 857 TTCCTCATCTAGTATTGCTATTTCCTGTCGACCGTCATTACAGTTATTGTTATCCA 916
2Y 901 TCCTTTTTCCTGATTGTACTACATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA 960
Db 917 TCCTTTTTCCTGATTGTACTACATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA 976
2Y 961 CTGAGGTATGAGCGCTCCATCATCA 985
Db 977 CTGAGGTATGAGCGCTCCATCATCA 1001

RESULT 7
ID ACA71029 standard; cDNA; 1016 BP.
XX ACA71029;
XX AC
XX DT 02-AUG-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) cDNA #50.
XX KW Human; gene; ss; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing.
XX OS Homo sapiens.
XX US2003032112-A1.
PN 13-FEB-2003.
PD 21-JUN-2002; 2002US-00176756.
PF 18-SEP-1997; 97US-0059263P.
PF 18-SEP-1997; 97US-0059266P.
PF 17-OCT-1997; 97US-0082250P.
PF 21-OCT-1997; 97US-0083486P.
PF 24-OCT-1997; 97US-0063120P.
PF 28-OCT-1997; 97US-0063121P.
PF 28-OCT-1997; 97US-0063540P.
PF 28-OCT-1997; 97US-0063541P.
PF 28-OCT-1997; 97US-0063544P.
PF 28-OCT-1997; 97US-0063564P.
PF 29-OCT-1997; 97US-0063734P.
PF 31-OCT-1997; 97US-0063870P.
PF 31-OCT-1997; 97US-0064103P.
PF 13-NOV-1997; 97US-0065311P.
PF 21-NOV-1997; 97US-0066120P.
PF 24-NOV-1997; 97US-0066466P.
PF 11-DEC-1997; 97US-0066772P.
PF 11-DEC-1997; 97US-0069335P.
PF 12-DEC-1997; 97US-0059425P.
PF 17-DEC-1997; 97US-0069870P.
PF 10-MAR-1998; 97US-0068017P.
PF 11-MAR-1998; 97US-0077450P.
PF 11-MAR-1998; 97US-0077632P.
PF 11-MAR-1998; 97US-0077649P.
PF 20-MAR-1998; 97US-0078886P.
PF 20-MAR-1998; 97US-0078939P.
PF 27-MAR-1998; 97US-0079564P.
PF 27-MAR-1998; 97US-0079786P.
PF 31-MAR-1998; 97US-0080107P.
PF 31-MAR-1998; 97US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089808P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
```

R 25-JUN-1998; 98US-0090690P.
R 25-JUN-1998; 98US-0090694P.
R 25-JUN-1998; 98US-0090695P.
R 25-JUN-1998; 98US-0090696P.
R 26-JUN-1998; 98US-00105413.
R 26-JUN-1998; 98US-0090862P.
R 26-JUN-1998; 98US-0090863P.
R 26-JUN-1998; 98US-0091010P.
R 01-JUL-1998; 98US-0091359P.
R 01-JUL-1998; 98US-0091544P.
R 02-JUL-1998; 98US-0091478P.
R 02-JUL-1998; 98US-0091486P.
R 02-JUL-1998; 98US-0091626P.
R 02-JUL-1998; 98US-0091628P.
R 02-JUL-1998; 98US-0091632P.
R 24-AUG-1998; 98US-0094008P.
R 04-AUG-1998; 98US-0095282P.
R 10-AUG-1998; 98US-0095598P.
R 10-AUG-1998; 98US-0096012P.
R 17-AUG-1998; 98US-0096757P.
R 17-AUG-1998; 98US-0096766P.
R 17-AUG-1998; 98US-0096867P.
R 17-AUG-1998; 98US-0096891P.
R 17-AUG-1998; 98US-0096897P.
R 18-AUG-1998; 98US-0096949P.
R 18-AUG-1998; 98US-0096959P.
R 18-AUG-1998; 98US-0097022P.
R 26-AUG-1998; 98US-0097952P.
R 26-AUG-1998; 98US-0097954P.
R 26-AUG-1998; 98US-0097955P.
R 26-AUG-1998; 98US-0097971P.
R 26-AUG-1998; 98US-0097974P.
R 26-AUG-1998; 98US-0098014P.
R 01-SEP-1998; 98US-0098716P.
R 01-SEP-1998; 98US-0098723P.
R 02-SEP-1998; 98US-0098803P.
R 02-SEP-1998; 98US-0098821P.
R 02-SEP-1998; 98US-0098843P.
R 09-SEP-1998; 98US-0099602P.
R 10-SEP-1998; 98US-0099741P.
R 10-SEP-1998; 98US-0099754P.
R 10-SEP-1998; 98US-0099763P.
R 10-SEP-1998; 98US-0099812P.
R 15-SEP-1998; 98US-0100388P.
R 16-SEP-1998; 98US-0100662P.
R 16-SEP-1998; 98US-0100664P.
R 16-SEP-1998; 98US-0101751P.
R 16-SEP-1998; 98WO-US019330.
R 17-SEP-1998; 98US-0100683P.
R 17-SEP-1998; 98US-0100684P.
R 17-SEP-1998; 98US-0100919P.
R 17-SEP-1998; 98US-0100930P.
R 18-SEP-1998; 98US-0100849P.
R 18-SEP-1998; 98US-0101014P.
R 23-SEP-1998; 98US-0101068P.
R 23-SEP-1998; 98US-0101471P.
R 23-SEP-1998; 98US-0101472P.
R 23-SEP-1998; 98US-0101475P.
R 23-SEP-1998; 98US-0101477P.
R 24-SEP-1998; 98US-0101738P.
R 24-SEP-1998; 98US-0101739P.
R 24-SEP-1998; 98US-0101743P.
R 24-SEP-1998; 98US-0101922P.
R 23-SEP-1998; 98US-0101786P.
R 23-SEP-1998; 98US-0102207P.
R 23-SEP-1998; 98US-0102240P.
R 23-SEP-1998; 98US-0102330P.
R 23-SEP-1998; 98US-0102331P.
R 30-SEP-1998; 98US-0102487P.
R 30-SEP-1998; 98US-0102570P.
R 30-SEP-1998; 98US-0102571P.
R 01-OCT-1998; 98US-0102684P.
R 01-OCT-1998; 98US-0102687P.

PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-00168978.

Query Match 61.5%; Score 980.2; DB 7; Length 1016;
Best Local Similarity 99.7%; Pred. No. 1.1e-279;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CAGCAATGAATGGCTTTGCATCCCTTGCTTCGAGAAACCAATTTATCTCTCTGGTACTAT 60
DB 17 CAGCAATGAATGGCTTTGCATCCCTTGCTTCGAGAAACCAATTTATCTCTCTGGTACTAT 76
QY 61 TTTCTTTTGCAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCCTACCGCTGAAGTCT 120
DB 77 TTTCTTTTGCAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCCTACCGCTGAAGTCT 136
QY 121 GTGCCACACACAAATTTCCAGGACCCCAAGAGATGATGTGAAAAAGGAGATCCAG 180
DB 137 GTGCCACACACAAATTTCCAGGACCCCAAGAGATGATGTGAAAAAGGAGATCCAG 196
QY 181 GAGAGAGGGAAGCAGTGGCAAGTGGGCGCATGGGCGCGGAAGGAATTTAAAGGAGAAC 240
DB 197 GAGAGAGGGAAGCAGTGGCAAGTGGGCGCATGGGCGCGGAAGGAATTTAAAGGAGAAC 256
QY 241 TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGGCCCATTTGGGAAGAGGGTG 300
DB 257 TGGGTGATATGGGAGATCAGGGCAATATTGGCAAGACTGGGGCCCATTTGGGAAGAGGGTG 316
QY 301 ACAAGGGGAAAAAGTTTGGTTGGATATCTGGAGAAAAAGGCAAGCAGGTACTGTCT 360
DB 317 ACAAGGGGAAAAAGTTTGGTTGGATATCTGGAGAAAAAGGCAAGCAGGTACTGTCT 376
QY 361 GTGATTGTGGAAGTACCGGAAATTTCTTGGCAACTTGGATATTAGTATTGCCGGGTCA 420
DB 377 GTGATTGTGGAAGTACCGGAAATTTCTTGGCAACTTGGATATTAGTATTGCCGGGTCA 436
QY 421 AGACATCTATGAAGTTTGTCAAGATGTGATAGCGGATTAGGAACTAGAGAGAAAT 480
DB 437 AGACATCTATGAAGTTTGTCAAGATGTGATAGCGGATTAGGAACTAGAGAGAAAT 496
QY 481 TCTACTACATCGTCAGAGAGAGAAAGTACAGGGAAATCCCTAACCCACTGCAGGATTC 540
DB 497 TCTACTACATCGTCAGAGAGAGAGAAAGTACAGGGAAATCCCTAACCCACTGCAGGATTC 556
QY 541 GGGGTGGAATCTAGCCATGCCAAGGATGAAGTGCACACACTCATCGCTGACTATG 600
DB 557 GGGGTGGAATCTAGCCATGCCAAGGATGAAGTGCACACACTCATCGCTGACTATG 616
QY 601 TTGCCAAGAGTGGCTTTCTTGGGTGTTCAATGGCGTGAATGACCTTGAAGGGAGGAC 660
DB 617 TTGCCAAGAGTGGCTTTCTTGGGTGTTCAATGGCGTGAATGACCTTGAAGGGAGGAC 676
QY 661 AGTACATGTTACAGACACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAAAC 720
DB 677 AGTACATGTTACAGACACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAAAC 736
QY 721 CCAGGACCCCTATGTCATGAGGACTGTCTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
DB 737 CCAGGACCCCTATGTCATGAGGACTGTCTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCATCTTACCATGTACTTTCTGTGAGTTTCATCAAGAGAAAAAGTAAC 840
DB 797 ACACAGAGTGCATCTTACCATGTACTTTCTGTGAGTTTCATCAAGAGAAAAAGTAAC 856
QY 841 TTCCCTCATCTAGTATTGCTATTTTCTGTGACCGTCACTACAGTTATTGTTATCCA 900
DB 857 TTCCCTCATCTAGTATTGCTATTTTCTGTGACCGTCACTACAGTTATTGTTATCCA 916
QY 901 TCCCTTTTCTGATGTACTACATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA 960
DB 917 TCCCTTTTCTGATGTACTACATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA 976

QY 961 CTGAGGTATGAGGCTTCATCATCA 985
Db 977 CTGAGGTATGAGGCTTCATCATCA 1001

RESULT 8
ACC87557
ID ACC87557 standard; cDNA; 1016 BP.
XX ACC87557;
AC
XX
XX 05-AUG-2003 (first entry)
XX Human secreted polypeptide PRO702-encoding cDNA, SEQ ID NO:99.
XX Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnary; gene therapy; gene; ss.
XS Homo sapiens.
XX
XX US2003027278-A1.
XX
XX
XX 06-FEB-2003.
XX
XX 21-JUN-2002; 2002US-00176987.
XX
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062250P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-0063120P.
XX 24-OCT-1997; 97US-0063121P.
XX 28-OCT-1997; 97US-0063540P.
XX 28-OCT-1997; 97US-0063541P.
XX 28-OCT-1997; 97US-0063544P.
XX 28-OCT-1997; 97US-0063564P.
XX 29-OCT-1997; 97US-0063734P.
XX 31-OCT-1997; 97US-0063870P.
XX 31-OCT-1997; 97US-0064103P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066120P.
XX 24-NOV-1997; 97US-0066466P.
XX 24-NOV-1997; 97US-0066772P.
XX 11-DEC-1997; 97US-0069335P.
XX 17-DEC-1997; 97US-0069425P.
XX 18-DEC-1997; 97US-0069870P.
XX 10-MAR-1998; 98US-0068017P.
XX 11-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077649P.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078939P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079786P.
XX 31-MAR-1998; 98US-0080107P.
XX 31-MAR-1998; 98US-0080194P.
XX 01-APR-1998; 98US-0080327P.
XX 01-APR-1998; 98US-0080333P.
XX 08-APR-1998; 98US-0081049P.
XX 08-APR-1998; 98US-0081070P.
XX 09-APR-1998; 98US-0081195P.
XX 15-APR-1998; 98US-0081838P.
XX 21-APR-1998; 98US-0082568P.
XX 21-APR-1998; 98US-0082569P.
XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 28-APR-1998; 98US-0083322P.
XX 29-APR-1998; 98US-0083495P.
XX 29-APR-1998; 98US-0083496P.
XX 29-APR-1998; 98US-0083499P.
XX 29-APR-1998; 98US-0083559P.
XX 05-MAY-1998; 98US-0084366P.
XX 06-MAY-1998; 98US-0084414P.
XX 07-MAY-1998; 98US-0084639P.
XX 07-MAY-1998; 98US-0084640P.
XX 07-MAY-1998; 98US-0084643P.
XX 15-MAY-1998; 98US-0085579P.
XX 15-MAY-1998; 98US-0085580P.
XX 15-MAY-1998; 98US-0085582P.
XX 15-MAY-1998; 98US-0085700P.
XX 18-MAY-1998; 98US-0086023P.
XX 22-MAY-1998; 98US-0086392P.
XX 22-MAY-1998; 98US-0086486P.
XX 28-MAY-1998; 98US-0087098P.
XX 28-MAY-1998; 98US-0087208P.
XX 02-JUN-1998; 98US-0087609P.
XX 02-JUN-1998; 98US-0087759P.
XX 03-JUN-1998; 98US-0087827P.
XX 04-JUN-1998; 98US-0088025P.
XX 04-JUN-1998; 98US-0088028P.
XX 04-JUN-1998; 98US-0088029P.
XX 04-JUN-1998; 98US-0088033P.
XX 04-JUN-1998; 98US-0088326P.
XX 05-JUN-1998; 98US-0088167P.
XX 05-JUN-1998; 98US-0088202P.
XX 05-JUN-1998; 98US-0088212P.
XX 05-JUN-1998; 98US-0088217P.
XX 09-JUN-1998; 98US-0088555P.
XX 10-JUN-1998; 98US-0088722P.
XX 10-JUN-1998; 98US-0088738P.
XX 10-JUN-1998; 98US-0088740P.
XX 10-JUN-1998; 98US-0088811P.
XX 10-JUN-1998; 98US-0088824P.
XX 10-JUN-1998; 98US-0088825P.
XX 10-JUN-1998; 98US-0088826P.
XX 11-JUN-1998; 98US-0088861P.
XX 11-JUN-1998; 98US-0088863P.
XX 11-JUN-1998; 98US-0088876P.
XX 12-JUN-1998; 98US-0089090P.
XX 12-JUN-1998; 98US-0089105P.
XX 16-JUN-1998; 98US-0089512P.
XX 17-JUN-1998; 98US-0089538P.
XX 17-JUN-1998; 98US-0089598P.
XX 17-JUN-1998; 98US-0089653P.
XX 18-JUN-1998; 98US-0089908P.
XX 19-JUN-1998; 98US-0089952P.
XX 22-JUN-1998; 98US-0090246P.
XX 22-JUN-1998; 98US-0090252P.
XX 22-JUN-1998; 98US-0090254P.
XX 24-JUN-1998; 98US-0090429P.
XX 24-JUN-1998; 98US-0090435P.
XX 24-JUN-1998; 98US-0090444P.
XX 24-JUN-1998; 98US-0090461P.
XX 24-JUN-1998; 98US-0090535P.
XX 24-JUN-1998; 98US-0090540P.
XX 25-JUN-1998; 98US-0090676P.
XX 25-JUN-1998; 98US-0090678P.
XX 25-JUN-1998; 98US-0090688P.
XX 25-JUN-1998; 98US-0090690P.
XX 25-JUN-1998; 98US-0090694P.
XX 25-JUN-1998; 98US-0090695P.
XX 26-JUN-1998; 98US-0090696P.
XX 26-JUN-1998; 98US-00105413.
XX 26-JUN-1998; 98US-0090862P.
XX 26-JUN-1998; 98US-0090863P.
XX 01-JUL-1998; 98US-0091010P.
XX 01-JUL-1998; 98US-0091359P.
XX 02-JUL-1998; 98US-0091544P.
XX 02-JUL-1998; 98US-0091478P.
XX 02-JUL-1998; 98US-0091486P.


```
26-AUG-1998; 98US-0097954P.
26-AUG-1998; 98US-0097955P.
26-AUG-1998; 98US-0097971P.
26-AUG-1998; 98US-0097974P.
26-AUG-1998; 98US-0098014P.
01-SEP-1998; 98US-0098716P.
01-SEP-1998; 98US-0098723P.
02-SEP-1998; 98US-0098803P.
02-SEP-1998; 98US-0098821P.
02-SEP-1998; 98US-0098843P.
09-SEP-1998; 98US-0099602P.
10-SEP-1998; 98US-0099741P.
10-SEP-1998; 98US-0099754P.
10-SEP-1998; 98US-0099763P.
10-SEP-1998; 98US-0099812P.
15-SEP-1998; 98US-0100388P.
16-SEP-1998; 98US-0100662P.
16-SEP-1998; 98US-0100664P.
16-SEP-1998; 98US-0101751P.
16-SEP-1998; 98US-0101933P.
17-SEP-1998; 98US-0100683P.
17-SEP-1998; 98US-0100684P.
17-SEP-1998; 98US-0100919P.
17-SEP-1998; 98US-0100930P.
18-SEP-1998; 98US-0100849P.
18-SEP-1998; 98US-0101014P.
18-SEP-1998; 98US-0101068P.
23-SEP-1998; 98US-0101471P.
23-SEP-1998; 98US-0101472P.
23-SEP-1998; 98US-0101475P.
23-SEP-1998; 98US-0101477P.
24-SEP-1998; 98US-0101738P.
24-SEP-1998; 98US-0101739P.
24-SEP-1998; 98US-0101743P.
24-SEP-1998; 98US-0101922P.
25-SEP-1998; 98US-0101786P.
29-SEP-1998; 98US-0102207P.
29-SEP-1998; 98US-0102240P.
29-SEP-1998; 98US-0102330P.
29-SEP-1998; 98US-0102331P.
30-SEP-1998; 98US-0102487P.
30-SEP-1998; 98US-0102570P.
30-SEP-1998; 98US-0102571P.
01-OCT-1998; 98US-0102684P.
01-OCT-1998; 98US-0102687P.

Query Match 61.5%; Score 980.2; DB 7; Length 1016;
Best Local Similarity 99.7%; Pred. No. 1.1e-279;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

1 CAGCAATGAATGGCTTTGCATCCTTCCTCGAAGAACCAATTTATCCTCCTGGTACTAT 60
|||||
17 CAGCAATGAATGGCTTTGCATCCTTCCTCGAAGAACCAATTTATCCTCCTGGTACTAT 76
|||||
61 TTCTTTTGGCAATTCAGAGTCTGGGTCCTGGATATTGATAGCGCTCCTACCGCTGAAGTCT 120
|||||
77 TTCTTTTGGCAATTCAGAGTCTGGGTCCTGGATATTGATAGCGCTCCTACCGCTGAAGTCT 136
|||||
121 GTGCCACACACAATTTCCACAGGACCCAAAGGAGATGATCGTCAAAAAGAGATCCAG 180
|||||
137 GTGCCACACACAATTTCCACAGGACCCAAAGGAGATGATCGTCAAAAAGAGATCCAG 196
|||||
181 GAGAAGAGGGAAGAGCATGGCAAGTGGGACGCATGGGCCGGAAGGAATTAAGAGAGAAC 240
|||||
197 GAGAAGAGGGAAGAGCATGGCAAGTGGGACGCATGGGCCGGAAGGAATTAAGAGAGAAC 256
|||||
241 TGGGTGATATGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG 300
|||||
257 TGGGTGATATGGAGATCAGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG 316
|||||
301 ACAAGGGGAAAAGGTTTCTTGGATACCTGGAGAAAAGGCAAGCAGGACTGTCT 360
|||||
317 ACAAGGGGAAAAGGTTTCTTGGATACCTGGAGAAAAGGCAAGCAGGACTGTCT 376
|||||
```

```
QY 361 GTGATTGTGGAAGATACCGGAAATTTGTTGGCAACTGGATATTAGTATGCCGGCTCA 420
DB 377 GTGATTGTGGAAGATACCGGAAATTTGTTGGCAACTGGATATTAGTATGCCGGCTCA 436
QY 421 AGACATCTATGAAGTTTCTCAGAATGTGATAGCAGGATAGGGAATCAGAGGAAT 480
DB 437 AGACATCTATGAAGTTTCTCAGAATGTGATAGCAGGATAGGGAATCAGAGGAAT 496
QY 481 TCTACTACATCTCGTCAGGAAGAGAAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC 540
DB 497 TCTACTACATCTCGTCAGGAAGAGAAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC 556
QY 541 GGGGTGGAATGTAGCCATGCCCAAGGATGAAGTGCACACACACTCATCTGCCTGACTATG 600
DB 557 GGGGTGGAATGTAGCCATGCCCAAGGATGAAGTGCACACACACTCATCTGCCTGACTATG 616
QY 601 TTGCCAAGAGTGGCTTTCTTTTCGGGTGTTTCATTGGCGTGAATGACCTTGAAAGGGAGGAC 660
DB 617 TTGCCAAGAGTGGCTTTCTTTTCGGGTGTTTCATTGGCGTGAATGACCTTGAAAGGGAGGAC 676
QY 661 AGTACATGTTACAGACAACTCCACTGCGAAGTATAGCAACTGGAATGAGGGGAAC 720
DB 677 AGTACATGTTCCACAGCAACACTCCACTGCGAAGTATAGCAACTGGAATGAGGGGAAC 736
QY 721 CCAAGCACCTTATGTCATGAGGAGTGTGTGGAGTCTGCTGAGCTCTGGCAGATGGAATG 780
DB 737 CCAGCGACCCCTATGGTCATGAGGAGTGTGTGGAGTCTGCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCCATCTTACCATTGTTGCTGTTGCTGTTGCTGTTGCTGTTGCTGTTGTTATCCA 840
DB 797 ACACAGAGTGCCATCTTACCATTGTTGCTGTTGCTGTTGCTGTTGCTGTTGCTGTTGTTATCCA 856
QY 841 TTCCCTCATCTCCTACGTTATTTGCTATTTTCTGTGACCGCTCATTTACAGTTATTGTTATCCA 900
DB 857 TTCCCTCATCTCCTACGTTATTTGCTATTTTCTGTGACCGCTCATTTACAGTTATTGTTATCCA 916
QY 901 TCCTTTTTCCTGATGTACTACATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA 960
DB 917 TCCTTTTTCCTGATGTACTACATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA 976
QY 961 CTGAGGTATGGAGCCCTCCATCATCA 985
DB 977 CTGAGGTATGGAGCCCTCCATCATCA 1001

RESULT 10
ACD04116
ID ACD04116 standard; cDNA; 1016 BP.
XX
AC ACD04116;
XX
DT 09-AUG-2003 (first entry)
XX
DE Human secreted/transmembrane protein (PRO) cDNA #50.
XX
KW Human; gene; ss; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
XX
OS Homo sapiens.
XX
PN US2003040070-A1.
XX
PD 27-FEB-2003.
XX
XX 27-JUN-2002; 2002US-00184627.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
```


PR	17-SEP-1998;	98US-0100683P.	
PR	17-SEP-1998;	98US-0100684P.	
PR	17-SEP-1998;	98US-0100919P.	
PR	17-SEP-1998;	98US-0100930P.	
PR	18-SEP-1998;	98US-0100849P.	
PR	18-SEP-1998;	98US-0101014P.	
PR	18-SEP-1998;	98US-0101068P.	
PR	23-SEP-1998;	98US-0101471P.	
PR	23-SEP-1998;	98US-0101472P.	
PR	23-SEP-1998;	98US-0101475P.	
PR	23-SEP-1998;	98US-0101477P.	
PR	24-SEP-1998;	98US-0101738P.	
PR	24-SEP-1998;	98US-0101739P.	
PR	24-SEP-1998;	98US-0101743P.	
PR	24-SEP-1998;	98US-0101922P.	
PR	25-SEP-1998;	98US-0101786P.	
PR	29-SEP-1998;	98US-0102207P.	
PR	29-SEP-1998;	98US-0102240P.	
PR	29-SEP-1998;	98US-0102330P.	
PR	30-SEP-1998;	98US-0102331P.	
PR	30-SEP-1998;	98US-0102487P.	
PR	30-SEP-1998;	98US-0102570P.	
PR	30-SEP-1998;	98US-0102571P.	
PR	01-OCT-1998;	98US-0102684P.	
PR	01-OCT-1998;	98US-0102687P.	
PR	02-OCT-1998;	98US-0102965P.	
PR	06-OCT-1998;	98US-0103258P.	
PR	06-OCT-1998;	98US-0103449P.	
PR	07-OCT-1998;	98US-00168978.	
Query Match			
Best Local Similarity 61.5%; Score 980.2; DB 7; Length 1016;			
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;			
Y	1	CAGCAATGAATGCTTTGCACTCTTCCTTCGAGAAACCAATTTATCTCTGCTGCTACTAT	60
b	17	CAGCAATGAATGCTTTGCACTCTTCCTTCGAGAAACCAATTTATCTCTGCTGCTACTAT	76
Y	61	TTCTTTTGCATAATCAGAGTCTGGGTCTCGAATATTGATAGCGCTCTACCGCTGAAGTCT	120
b	77	TTCTTTTGCATAATCAGAGTCTGGGTCTCGAATATTGATAGCGCTCTACCGCTGAAGTCT	136
Y	121	GTGCCACACACAATTTCCACAGAGCCCAAGAGGAGATGATGGTGAAGAGAGATCCAG	180
b	137	GTGCCACACACAATTTCCACAGAGCCCAAGAGGAGATGATGGTGAAGAGAGATCCAG	196
Y	181	GAGAAGAGGGAAGCATGGCAAGTGGGACCGCATGGGCCGCAAGAAATTAAGAGAGAAC	240
b	197	GAGAAGAGGGAAGCATGGCAAGTGGGACCGCATGGGCCGCAAGAAATTAAGAGAGAAC	256
Y	241	TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG	300
b	257	TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG	316
Y	301	ACAAAGGGGAAAAAGGTTTGTCTTGAATACCTGGAGAAAGGCAAGCAAGTACTGTCT	360
b	317	ACAAAGGGGAAAAAGGTTTGTCTTGNATACCTGGAGAAAGGCAAGCAAGTACTGTCT	376
Y	361	GTGATTGTGGAAGATACCGGAAATTTGTTGGCAACTGGATATTAGTATTCGCCGGTCA	420
b	377	GTGATTGTGGAAGATACCGGAAATTTGTTGGCAACTGGATATTAGTATTCGCCGGTCA	436
Y	421	AGACATCTATGAAGTTTGTCAAGATGTGATAGAGGATAGGGAAGTCAAGAGAAAT	480
b	437	AGACATCTATGAAGTTTGTCAAGATGTGATAGAGGATAGGGAAGTCAAGAGAAAT	496
Y	481	TTCTACTACTGTGTCAGGAGAGAACTACAGGGAATTCCTTAACCCACTGCAAGGATTC	540
b	497	TTCTACTACTGTGTCAGGAGAGAACTACAGGGAATTCCTTAACCCACTGCAAGGATTC	556
Y	541	GGGGTGGATGCTAGCCATGCCAGGATGAGCTGCCAACACACTCATCTGCTGACTATG	600
b	557	GGGGTGGATGCTAGCCATGCCAGGATGAGCTGCCAACACACTCATCTGCTGACTATG	616

QY	601	TTGCCAAGAGTGGCTTCTTTTCGGGTGTTTCATTGGCGTGAATGACCTTCAAAAGGGAGGAC	660
Db	617	TTGCCAAGAGTGGCTTCTTTTCGGGTGTTTCATTGGCGTGAATGACCTTCAAAAGGGAGGAC	676
QY	661	AGTACATGTTTCACAGACACACACTCCACTGCAGAACTAGCAACTGGAATGAGGGGAAAC	720
Db	677	AGTACATGTTTCACAGACACACACTCCACTGCAGAACTAGCAACTGGAATGAGGGGAAAC	736
QY	721	CCAGCGACCCCTATGCTCATGAGGAGCTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG	780
Db	737	CCAGCGACCCCTATGCTCATGAGGAGCTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG	796
QY	781	ACACAGAGTGCATCTTACCATGTAATTGCTTCTGTGAGTTCATCAAGAGAAAAAGTAAC	840
Db	797	ACACAGAGTGCATCTTACCATGTAATTGCTTCTGTGAGTTCATCAAGAGAAAAAGTAAC	856
QY	841	TTCCCTCATCTTACGTAATTGCTTATTTTCTGTGTGACCGTCAATTACAGTTATTGTTATCCA	900
Db	857	TTCCCTCATCTTACGTAATTGCTTATTTTCTGTGTGACCGTCAATTACAGTTATTGTTATCCA	916
QY	901	TCCTTTTTCCTGATTTGTAATTAATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA	960
Db	917	TCCTTTTTCCTGATTTGTAATTTGTAATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA	976
QY	961	CTGAGGTATGGAGCCCTCCATCATCA	985
Db	977	CTGAGGTATGGAGCCCTCCATCATCA	1001
RESULT 11			
ACA69447			
ID	ACA69447	standard; cDNA; 1016 BP.	
XX	ACA69447;		
XX			
DT	27-JUN-2003	(first entry)	
XX			
DE	cDNA encoding human PRO polypeptide #50.		
XX			
KW	Human; PRO polypeptide; secreted and transmembrane protein; tumour;		
KW	chromosome mapping; gene mapping; cytostatic; gene therapy; gene; ss.		
XX			
OS	Homo sapiens.		
XX			
PN	US2003032113-A1.		
XX			
PD	13-FEB-2003.		
XX			
PF	20-JUN-2002; 2002US-00176911.		
XX			
PR	18-SEP-1997;	97US-0059263P.	
PR	18-SEP-1997;	97US-0059266P.	
PR	17-OCT-1997;	97US-0062250P.	
PR	21-OCT-1997;	97US-0063486P.	
PR	24-OCT-1997;	97US-0063120P.	
PR	24-OCT-1997;	97US-0063121P.	
PR	28-OCT-1997;	97US-0063540P.	
PR	28-OCT-1997;	97US-0063541P.	
PR	28-OCT-1997;	97US-0063544P.	
PR	28-OCT-1997;	97US-0063564P.	
PR	29-OCT-1997;	97US-0063734P.	
PR	31-OCT-1997;	97US-0063870P.	
PR	31-OCT-1997;	97US-0064103P.	
PR	13-NOV-1997;	97US-0065311P.	
PR	24-NOV-1997;	97US-00656120P.	
PR	24-NOV-1997;	97US-0065666P.	
PR	11-DEC-1997;	97US-0066772P.	
PR	12-DEC-1997;	97US-0069335P.	
PR	17-DEC-1997;	97US-0069425P.	
PR	18-DEC-1997;	97US-0069870P.	
PR	18-DEC-1997;	97US-0069871P.	
PR	10-MAR-1998;	98US-0077450P.	

PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078933P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 03-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081828P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 28-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 05-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085802P.
PR 15-MAY-1998; 98US-0085808P.
PR 15-MAY-1998; 98US-0085822P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 05-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 12-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089539P.
PR 17-JUN-1998; 98US-0089553P.
PR 18-JUN-1998; 98US-0089508P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0077632P.
PR 24-JUN-1998; 98US-0077649P.
PR 24-JUN-1998; 98US-0078886P.
PR 24-JUN-1998; 98US-0078933P.
PR 24-JUN-1998; 98US-0079664P.
PR 24-JUN-1998; 98US-0079786P.
PR 25-JUN-1998; 98US-0080107P.
PR 25-JUN-1998; 98US-0080194P.
PR 25-JUN-1998; 98US-0080327P.
PR 25-JUN-1998; 98US-0080333P.
PR 25-JUN-1998; 98US-0081049P.
PR 25-JUN-1998; 98US-0081070P.
PR 25-JUN-1998; 98US-0081195P.
PR 25-JUN-1998; 98US-0081828P.
PR 26-JUN-1998; 98US-0082568P.
PR 26-JUN-1998; 98US-0082569P.
PR 26-JUN-1998; 98US-0082704P.
PR 26-JUN-1998; 98US-0082797P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091686P.
PR 02-JUL-1998; 98US-0091688P.
PR 02-JUL-1998; 98US-0091689P.
PR 02-JUL-1998; 98US-0091692P.
PR 02-JUL-1998; 98US-0091693P.
PR 02-JUL-1998; 98US-0091694P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096892P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097032P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 15-SEP-1998; 98US-0099842P.
PR 16-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-0101751P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.

R	29-SEP-1998;	98US-0102240P.	
R	29-SEP-1998;	98US-0102330P.	
R	29-SEP-1998;	98US-0102331P.	
R	30-SEP-1998;	98US-0102487P.	
R	30-SEP-1998;	98US-0102570P.	
R	30-SEP-1998;	98US-0102571P.	
R	01-OCT-1998;	98US-0102684P.	
R	01-OCT-1998;	98US-0102687P.	
R	02-OCT-1998;	98US-0102965P.	
R	06-OCT-1998;	98US-0103258P.	
R	06-OCT-1998;	98US-0103449P.	
R	07-OCT-1998;	98US-00168978.	
R	07-OCT-1998;	98US-0103395P.	
Query Match			
Best Local Similarity			61.5%; Score 980.2; DB 7; Length 1016;
Matches 982; Conservative			99.7%; Pred. No. 1.1e-279;
			Mismatches 3; Indels 0; Gaps 0;
Y	1	CAGCAATGAATGGCTTTGATCCTTGGCTTCGAGAGAACCAATTTATCTCTGGTACTAT	60
b	17	CAGCAATGAATGGCTTTGATCCTTGGCTTCGAGAGAACCAATTTATCTCTGGTACTAT	76
Y	61	TTCTTTTGCAGAAATCAGAGTCTGGGTCTGGATATTGATAGCCGCTCTACCGCTGAAGTCT	120
b	77	TTCTTTTGCAGAAATCAGAGTCTGGGTCTGGATATTGATAGCCGCTCTACCGCTGAAGTCT	136
Y	121	GTCCCAACACACAAATTCACAGAGACCACAAAGGAGATGATGGTGAAAAAGGAGATCCAG	180
b	137	GTCCCAACACACAAATTCACAGAGACCACAAAGGAGATGATGGTGAAAAAGGAGATCCAG	196
Y	181	GAGAAGAGGAGAAAGCATGGCAAGTGGGACGATGGGCCGGAAGGAATTTAAAGGAGAAC	240
b	197	GAGAAGAGGAGAAAGCATGGCAAGTGGGACGATGGGCCGGAAGGAATTTAAAGGAGAAC	256
Y	241	TGGTGATATGGAGATCGGGCAATATTGGCAAGTGGGCCCAATTTGGGAAGAGGGTG	300
b	257	TGGTGATATGGAGATCGGGCAATATTGGCAAGTGGGCCCAATTTGGGAAGAGGGTG	316
Y	301	ACAAAGGGGAAAGGTTTCTTGGATACCTGGAGAAAGGCAAGGACAGTACTGTCT	360
b	317	ACAAAGGGGAAAGGTTTCTTGGATACCTGGAGAAAGGCAAGGACAGTACTGTCT	376
Y	361	GTCAATGTGGAAGATACCGGAAATTTGTTGGCAAACTGGATATTAGTATTCCTCCGGCTCA	420
b	377	GTCAATGTGGAAGATACCGGAAATTTGTTGGCAAACTGGATATTAGTATTCCTCCGGCTCA	436
Y	421	AGACATCTATGAATTTGTCAAGATGTGATAGCGAGGATAGGGAACCTGAAGAAAT	480
b	437	AGACATCTATGAATTTGTCAAGATGTGATAGCGAGGATAGGGAACCTGAAGAAAT	496
Y	481	TCTACTACATCGTCAGGAGAGAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC	540
b	497	TCTACTACATCGTCAGGAGAGAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC	556
Y	541	GGGGTGAATGTAGCCATCGCCAGGATGAAGTGCACACACTATCCTGCTGACTATG	600
b	557	GGGGTGAATGTAGCCATCGCCAGGATGAAGTGCACACACTATCCTGCTGACTATG	616
Y	601	TTCCCAAGAGTGGCTTTCTTTTCGGGTGTTTCATTGGCGTGAATGACCTTCARAGGAGGGAC	660
b	617	TTCCCAAGAGTGGCTTTCTTTTCGGGTGTTTCATTGGCGTGAATGACCTTCARAGGAGGGAC	676
Y	661	AGTACATGTTCCAGACACAACTCCACTGCAGAACTATAGCAACTGGAACTGAGGGGAAAC	720
b	677	AGTACATGTTCCAGACACAACTCCACTGCAGAACTATAGCAACTGGAACTGAGGGGAAAC	736
Y	721	CCAGCCACCCCTATGCTATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAAATG	780
b	737	CCAGCCACCCCTATGCTATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAAATG	796
Y	781	ACACAGAGTGCCATCTTACCATGTATTTGTCTGTGAGTTTCATCAAGAGAAAAAGTAAC	840
b	797	ACACAGAGTGCCATCTTACCATGTATTTGTCTGTGAGTTTCATCAAGAGAAAAAGTAAC	856

QY	841	TTCCCTCATCTACGTTTTCCTATTTCCTGTGACCGTCAATTACAGTTATTGTATCCA	900
Db	857	TTCCCTCATCTACGTTTTCCTATTTCCTGTGACCGTCAATTACAGTTATTGTATCCA	916
QY	901	TCCTTTTTCCTGATTGTACTACATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA	960
Db	917	TCCTTTTTCCTGATTGTACTACATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA	976
QY	961	CTGAGGTATGGAGCCTCCATCATCA	985
Db	977	CTGAGGTATGGAGCCTCCATCATCA	1001

RESULT 12

ACA90292
ID ACA90292 standard; cDNA; 1016 BP.
XX ACA90292;
XX DT 11-AUG-2003 (first entry)
XX Novel human secreted and transmembrane protein PRO702 cDNA.
XX Human; gene therapy; tissue typing; tumour; chondrocyte proliferation;
XX chondrocyte differentiation; tumour necrosis factor-alpha release; ss;
XX affinity purification; gene.
XX Homo sapiens.
XX US2003036147-A1.
XX 20-FEB-2003.

XX	02-JUL-2002;	2002US-00187741.
PR	18-SEP-1997;	97US-0059263P.
PR	18-SEP-1997;	97US-0059266P.
PR	17-OCT-1997;	97US-0082250P.
PR	21-OCT-1997;	97US-0083486P.
PR	24-OCT-1997;	97US-0083120P.
PR	24-OCT-1997;	97US-0083121P.
PR	28-OCT-1997;	97US-0063540P.
PR	28-OCT-1997;	97US-0063541P.
PR	28-OCT-1997;	97US-0063544P.
PR	28-OCT-1997;	97US-0063564P.
PR	29-OCT-1997;	97US-0063734P.
PR	31-OCT-1997;	97US-0063870P.
PR	31-OCT-1997;	97US-0064103P.
PR	13-NOV-1997;	97US-0065311P.
PR	21-NOV-1997;	97US-0066120P.
PR	24-NOV-1997;	97US-0066466P.
PR	24-NOV-1997;	97US-0066772P.
PR	11-DEC-1997;	97US-0069335P.
PR	12-DEC-1997;	97US-0069425P.
PR	18-DEC-1997;	97US-0069870P.
PR	10-MAR-1998;	98US-0068017P.
PR	11-MAR-1998;	98US-0077450P.
PR	11-MAR-1998;	98US-0077632P.
PR	11-MAR-1998;	98US-0077649P.
PR	20-MAR-1998;	98US-0078868P.
PR	20-MAR-1998;	98US-0078939P.
PR	27-MAR-1998;	98US-0079664P.
PR	27-MAR-1998;	98US-0079786P.
PR	31-MAR-1998;	98US-0080107P.
PR	01-APR-1998;	98US-0080194P.
PR	01-APR-1998;	98US-0080327P.
PR	01-APR-1998;	98US-0080333P.
PR	08-APR-1998;	98US-0081049P.
PR	08-APR-1998;	98US-0081070P.
PR	09-APR-1998;	98US-0081195P.
PR	15-APR-1998;	98US-0081838P.
PR	21-APR-1998;	98US-0082568P.

PR	21-APR-1998;	98US-0082569P.	PR	26-JUN-1998;	98US-0091010P.
PR	22-APR-1998;	98US-0082704P.	PR	01-JUL-1998;	98US-0091359P.
PR	22-APR-1998;	98US-0082797P.	PR	01-JUL-1998;	98US-0091544P.
PR	22-APR-1998;	98US-0083322P.	PR	02-JUL-1998;	98US-0091478P.
PR	29-APR-1998;	98US-0083495P.	PR	02-JUL-1998;	98US-0091486P.
PR	29-APR-1998;	98US-0083496P.	PR	02-JUL-1998;	98US-0091626P.
PR	29-APR-1998;	98US-0083499P.	PR	02-JUL-1998;	98US-0091628P.
PR	29-APR-1998;	98US-0083559P.	PR	02-JUL-1998;	98US-0091632P.
PR	05-MAY-1998;	98US-0084366P.	PR	02-JUL-1998;	98US-0091632P.
PR	06-MAY-1998;	98US-0084414P.	PR	04-AUG-1998;	98US-0095282P.
PR	07-MAY-1998;	98US-0084633P.	PR	10-AUG-1998;	98US-0095288P.
PR	07-MAY-1998;	98US-0084640P.	PR	10-AUG-1998;	98US-0096012P.
PR	07-MAY-1998;	98US-0084643P.	PR	17-AUG-1998;	98US-0096757P.
PR	15-MAY-1998;	98US-0085579P.	PR	17-AUG-1998;	98US-0096766P.
PR	15-MAY-1998;	98US-0085580P.	PR	17-AUG-1998;	98US-0096667P.
PR	15-MAY-1998;	98US-0085582P.	PR	17-AUG-1998;	98US-0096831P.
PR	15-MAY-1998;	98US-0085700P.	PR	17-AUG-1998;	98US-0096897P.
PR	18-MAY-1998;	98US-0086023P.	PR	18-AUG-1998;	98US-0096949P.
PR	22-MAY-1998;	98US-0086392P.	PR	18-AUG-1998;	98US-0096959P.
PR	22-MAY-1998;	98US-0086486P.	PR	18-AUG-1998;	98US-0097022P.
PR	28-MAY-1998;	98US-0087098P.	PR	26-AUG-1998;	98US-0097952P.
PR	28-MAY-1998;	98US-0087208P.	PR	26-AUG-1998;	98US-0097954P.
PR	02-JUN-1998;	98US-0087609P.	PR	26-AUG-1998;	98US-0097955P.
PR	02-JUN-1998;	98US-0087753P.	PR	26-AUG-1998;	98US-0097971P.
PR	03-JUN-1998;	98US-0087827P.	PR	26-AUG-1998;	98US-0097974P.
PR	04-JUN-1998;	98US-0088025P.	PR	26-AUG-1998;	98US-0098014P.
PR	04-JUN-1998;	98US-0088028P.	PR	01-SEP-1998;	98US-0098716P.
PR	04-JUN-1998;	98US-0088029P.	PR	01-SEP-1998;	98US-0098723P.
PR	04-JUN-1998;	98US-0088033P.	PR	02-SEP-1998;	98US-0098803P.
PR	04-JUN-1998;	98US-0088326P.	PR	02-SEP-1998;	98US-0098821P.
PR	05-JUN-1998;	98US-0088167P.	PR	02-SEP-1998;	98US-0098843P.
PR	05-JUN-1998;	98US-0088202P.	PR	09-SEP-1998;	98US-0099602P.
PR	05-JUN-1998;	98US-0088212P.	PR	10-SEP-1998;	98US-0099741P.
PR	05-JUN-1998;	98US-0088217P.	PR	10-SEP-1998;	98US-0099754P.
PR	09-JUN-1998;	98US-0088655P.	PR	10-SEP-1998;	98US-0099763P.
PR	10-JUN-1998;	98US-0088722P.	PR	15-SEP-1998;	98US-0099812P.
PR	10-JUN-1998;	98US-0088738P.	PR	15-SEP-1998;	98US-0100388P.
PR	10-JUN-1998;	98US-0088740P.	PR	16-SEP-1998;	98US-0100682P.
PR	10-JUN-1998;	98US-0088811P.	PR	16-SEP-1998;	98US-0100684P.
PR	10-JUN-1998;	98US-0088824P.	PR	16-SEP-1998;	98US-0101751P.
PR	10-JUN-1998;	98US-0088825P.	PR	16-SEP-1998;	98US-0101751P.
PR	10-JUN-1998;	98US-0088826P.	PR	17-SEP-1998;	98US-0100683P.
PR	11-JUN-1998;	98US-0088861P.	PR	17-SEP-1998;	98US-0100684P.
PR	11-JUN-1998;	98US-0088863P.	PR	17-SEP-1998;	98US-0100919P.
PR	11-JUN-1998;	98US-0088876P.	PR	17-SEP-1998;	98US-0100930P.
PR	12-JUN-1998;	98US-0089090P.	PR	18-SEP-1998;	98US-0100849P.
PR	12-JUN-1998;	98US-0089103P.	PR	18-SEP-1998;	98US-0101014P.
PR	16-JUN-1998;	98US-0089512P.	PR	18-SEP-1998;	98US-0101068P.
PR	16-JUN-1998;	98US-0089514P.	PR	23-SEP-1998;	98US-0101471P.
PR	17-JUN-1998;	98US-0089538P.	PR	23-SEP-1998;	98US-0101472P.
PR	17-JUN-1998;	98US-0089598P.	PR	23-SEP-1998;	98US-0101475P.
PR	17-JUN-1998;	98US-0089653P.	PR	23-SEP-1998;	98US-0101477P.
PR	18-JUN-1998;	98US-0089908P.	PR	24-SEP-1998;	98US-0101738P.
PR	19-JUN-1998;	98US-0089952P.	PR	24-SEP-1998;	98US-0101739P.
PR	22-JUN-1998;	98US-0090246P.	PR	24-SEP-1998;	98US-0101743P.
PR	22-JUN-1998;	98US-0090252P.	PR	24-SEP-1998;	98US-0101922P.
PR	22-JUN-1998;	98US-0090254P.	PR	25-SEP-1998;	98US-0101786P.
PR	24-JUN-1998;	98US-0090429P.	PR	29-SEP-1998;	98US-0102207P.
PR	24-JUN-1998;	98US-0090435P.	PR	29-SEP-1998;	98US-0102240P.
PR	24-JUN-1998;	98US-0090444P.	PR	29-SEP-1998;	98US-0102330P.
PR	24-JUN-1998;	98US-0090461P.	PR	29-SEP-1998;	98US-0102331P.
PR	24-JUN-1998;	98US-0090535P.	PR	30-SEP-1998;	98US-0102487P.
PR	24-JUN-1998;	98US-0090540P.	PR	30-SEP-1998;	98US-0102570P.
PR	25-JUN-1998;	98US-0090676P.	PR	30-SEP-1998;	98US-0102571P.
PR	25-JUN-1998;	98US-0090678P.	PR	01-OCT-1998;	98US-0102684P.
PR	25-JUN-1998;	98US-0090688P.	PR	01-OCT-1998;	98US-0102687P.
PR	25-JUN-1998;	98US-0090690P.	PR	02-OCT-1998;	98US-0102965P.
PR	25-JUN-1998;	98US-0090694P.	PR	06-OCT-1998;	98US-0103258P.
PR	25-JUN-1998;	98US-0090695P.	PR	06-OCT-1998;	98US-0103449P.
PR	26-JUN-1998;	98US-00105413.	PR	07-OCT-1998;	98US-00168978.
PR	26-JUN-1998;	98US-0090862P.			
PR	26-JUN-1998;	98US-0090863P.			

Query Match 61.5%; Score 980.2; DB 7; Length 1016;
Best Local Similarity 99.7%; Pred. No. 1.1e-279;

Matches	982;	Conservative	0;	Mismatches	3;	Indels	0;	Gaps	0;
1	CAGCAATGAATGGCTTTGGCATCCTCTTCGAGAAACCAATTTATCTCTCTGGTACTAT	60							
17	CAGCAATGAATGGCTTTGGCATCCTCTTCGAGAAACCAATTTATCTCTCTGGTACTAT	76							
61	TTCTTTTGCRAATTCAGAGTCTGGTCTGGATATTGATAGCCGCTCTACCGCTGAGTCT	120							
77	TTCTTTTGCRAATTCAGAGTCTGGTCTGGATATTGATAGCCGCTCTACCGCTGAGTCT	136							
121	GTGCCACACACAAATTTACCAAGAGGAGATGATGGTGAAGAGAGATCCAG	180							
137	GTGCCACACACAAATTTACCAAGAGGAGATGATGGTGAAGAGAGATCCAG	196							
181	GAGAGAGGAGGAGATGGCAAGTGGAGCGATGGGCGGAGAGATTAAGAGAGAC	240							
197	GAGAGAGGAGGAGATGGCAAGTGGAGCGATGGGCGGAGAGATTAAGAGAGAC	256							
241	TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG	300							
257	TGGGTGATATGGGAGATCAGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG	316							
301	ACAAAGGGGAAAAGGTTTCTTGGAAATACCTGGAGAAAAGGCAAGCAGTACTGTCT	360							
317	ACAAAGGGGAAAAGGTTTCTTGGAAATACCTGGAGAAAAGGCAAGCAGTACTGTCT	376							
361	GTGATTGTGGAAGATACCGGAAATTTGTTGGCAACTGGATATTAGTATTGCCGGCTCA	420							
377	GTGATTGTGGAAGATACCGGAAATTTGTTGGCAACTGGATATTAGTATTGCCGGCTCA	436							
421	AGACATCTATGAATTTGTCAAGAAATGTGATAGCAGGATTTAGGGAATCTGAAGAGAAAT	480							
437	AGACATCTATGAATTTGTCAAGAAATGTGATAGCAGGATTTAGGGAATCTGAAGAGAAAT	496							
481	TCTACTACATCTGTCAGGAGAGAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC	540							
497	TCTACTACATCTGTCAGGAGAGAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC	556							
541	GGGTGGAATGCTAGGCAATCCCAAGGATGAAGCTGCCAACACATCTCGTGTGACTATG	600							
557	GGGTGGAATGCTAGGCAATCCCAAGGATGAAGCTGCCAACACATCTCGTGTGACTATG	616							
601	TTGCCAGAGTGGCTTTCTTCGGGTGTTCAATGGCGTGAATGACCTTGAAGGGAGGGAC	660							
617	TTGCCAGAGTGGCTTTCTTCGGGTGTTCAATGGCGTGAATGACCTTGAAGGGAGGGAC	676							
661	AGTACATGTTTCACAGACACACACTCCACTGAGAACTATAGCAACTGGAATGAGGGGAAAC	720							
677	AGTACATGTTTCACAGACACACACTCCACTGAGAACTATAGCAACTGGAATGAGGGGAAAC	736							
721	CCAGCGACCCCTATGTCATGAGGACTGTGTGAGATGCTGAGCTTGGCAGATGGAATG	780							
737	CCAGCGACCCCTATGTCATGAGGACTGTGTGAGATGCTGAGCTTGGCAGATGGAATG	796							
781	ACAGAGTGCATCTTACCATGACTTTGTCGTGAGTTCTCAAGAGAAAAGTAAAC	840							
797	ACAGAGTGCATCTTACCATGACTTTGTCGTGAGTTCTCAAGAGAAAAGTAAAC	856							
841	TTCCCTCATCTAGTATTTGCTATTTTCTGTGACCGCTCATTAAGTATTGTTATCA	900							
857	TTCCCTCATCTAGTATTTGCTATTTTCTGTGACCGCTCATTAAGTATTGTTATCA	916							
901	TCCCTTTTCTCATGTTACTACATTTGATCTGAGTCAACATAGTCAAAAATGCTAAA	960							
917	TCCCTTTTCTCATGTTACTACATTTGATCTGAGTCAACATAGTCAAAAATGCTAAA	976							
961	CTGAGTATGAGCCTCCATCATCA	985							
977	CTGAGTATGAGCCTCCATCATCA	1001							

ID	ACC89399 standard; cDNA; 1016 BP.
XX	
AC	ACC89399;
XX	
DT	11-AUG-2003 (first entry)
XX	
DE	Human secreted polypeptide PRO702-encoding cDNA, SEQ ID NO:99.
XX	
KW	Human; PRO; secreted protein; transmembrane protein;
KW	extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW	chondrocyte; proliferation; differentiation; cartilage disorder;
KW	bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW	adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW	liver; drug screening; transgenic animal; genetic analysis;
KW	antiarthritic; vulnery; gene therapy; gene; ss.
XX	
OS	Homo sapiens.
XX	
PN	US2003027264-A1.
XX	
PD	06-FEB-2003.
XX	
PF	18-JUN-2002; 2002US-00174579.
XX	
PR	18-SEP-1997; 97US-0059263P.
PR	18-SEP-1997; 97US-0059266P.
PR	17-OCT-1997; 97US-0062250P.
PR	21-OCT-1997; 97US-0063486P.
PR	24-OCT-1997; 97US-0063120P.
PR	24-OCT-1997; 97US-0063121P.
PR	28-OCT-1997; 97US-0063540P.
PR	28-OCT-1997; 97US-0063541P.
PR	28-OCT-1997; 97US-0063544P.
PR	29-OCT-1997; 97US-0063734P.
PR	31-OCT-1997; 97US-0063870P.
PR	31-OCT-1997; 97US-0064103P.
PR	13-NOV-1997; 97US-0065311P.
PR	21-NOV-1997; 97US-0066120P.
PR	24-NOV-1997; 97US-0066466P.
PR	24-NOV-1997; 97US-0066772P.
PR	11-DEC-1997; 97US-0069335P.
PR	17-DEC-1997; 97US-0069425P.
PR	18-DEC-1997; 97US-0069870P.
PR	10-MAR-1998; 98US-0068017P.
PR	11-MAR-1998; 98US-0077632P.
PR	11-MAR-1998; 98US-0077649P.
PR	20-MAR-1998; 98US-0078886P.
PR	27-MAR-1998; 98US-0078939P.
PR	27-MAR-1998; 98US-0079786P.
PR	31-MAR-1998; 98US-0080107P.
PR	01-APR-1998; 98US-0080194P.
PR	01-APR-1998; 98US-0080327P.
PR	08-APR-1998; 98US-0081049P.
PR	08-APR-1998; 98US-0081070P.
PR	09-APR-1998; 98US-0081195P.
PR	15-APR-1998; 98US-0081838P.
PR	21-APR-1998; 98US-0082568P.
PR	21-APR-1998; 98US-0082569P.
PR	22-APR-1998; 98US-0082704P.
PR	22-APR-1998; 98US-0082797P.
PR	28-APR-1998; 98US-0083322P.
PR	29-APR-1998; 98US-0083495P.
PR	29-APR-1998; 98US-0083496P.
PR	29-APR-1998; 98US-0083499P.
PR	29-APR-1998; 98US-0083559P.
PR	05-MAY-1998; 98US-0084366P.
PR	06-MAY-1998; 98US-0084414P.
PR	07-MAY-1998; 98US-0084639P.
PR	07-MAY-1998; 98US-0084640P.

```
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085573P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 15-MAY-1998; 98US-0085700P.
PR 18-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086465P.
PR 22-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087603P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 24-JUN-1998; 98US-0090423P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090540P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0018543.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 26-JUN-1998; 98US-0091010P.
PR 01-JUL-1998; 98US-0091359P.
PR 01-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091632P.
PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
```

```
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0097022P.
PR 26-AUG-1998; 98US-0097552P.
PR 26-AUG-1998; 98US-0097554P.
PR 26-AUG-1998; 98US-0097555P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0098014P.
PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098821P.
PR 02-SEP-1998; 98US-0098843P.
PR 09-SEP-1998; 98US-0099602P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099812P.
PR 10-SEP-1998; 98US-0100388P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 16-SEP-1998; 98US-0101751P.
PR 16-SEP-1998; 98US-01019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101477P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101739P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 25-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
```

Query Match 61.5%; Score 980.2; DB 7; Length 1016;

Best Local Similarity 99.7%; Pred. No. 1.1e-279;

Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```
QY 1 CAGCAATGAATGGCTTTGGCATCTCTTCGAGAAACCAATTTATCTCTCGTACTAT 60
DB 17 CAGCAATGAATGGCTTTGGCATCTCTTCGAGAAACCAATTTATCTCTCGTACTAT 76
QY 61 TTCTTTTGCMAATTACAGAGTCTGGGTCTGGATATTGATAGCGCTCTACCGCTGAAGTCT 120
DB 77 TTCTTTTGCMAATTACAGAGTCTGGGTCTGGATATTGATAGCGCTCTACCGCTGAAGTCT 136
QY 121 GTGCCACACACAAATTTACCAGACCCAAAGAGATGATGCTGAAAGAGATCCAG 180
DB 137 GTGCCACACACAAATTTACCAGACCCAAAGAGATGATGCTGAAAGAGATCCAG 196
QY 181 GAGAGAGGGAAGCATGGCAAAAGTGGGCGCATGGGCGCAAGGAATTTAAAGGAGAAC 240
```

197 GAGAAAGGAGAAAGCATGGCAAGTGGACGCGATGGGCGCGAAGAAATTAAGGAGAAC 256
241 TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGAAAGAGCGTG 300
257 TGGGTGATATGGGAGATCAGGCAATATTGGCAAGACTGGGCCCATTTGGAGAGAGGCTG 316
301 ACAAGGGGAAAAGGTTTCTTGGATACCTGGAGAAAAGGCAAGCAGGTACTGTCT 360
317 ACAAGGGGAAAAGGTTTCTTGGATACCTGGAGAAAAGGCAAGCAGGTACTGTCT 376
361 GTGATTGTGAAGATACCGGAAATTTGTTGGCAACTGGATATTAGTATTGCCCGCTCA 420
377 GTGATTGTGAAGATACCGGAAATTTGTTGGCAACTGGATATTAGTATTGCCCGCTCA 436
421 AGACATCTATGAATTTGTCAAGATGTGATACGAGGATTTAGGGAACCTGAAGAGAAAT 480
437 AGACATCTATGAATTTGTCAAGATGTGATACGAGGATTTAGGGAACCTGAAGAGAAAT 496
481 TCTACTACATCGTCAGGAGAGAGAACTACAGGGAATCCCTAACCCACCTGCAGGATTC 540
497 TCTACTACATCGTCAGGAGAGAGAACTACAGGGAATCCCTAACCCACCTGCAGGATTC 556
541 GGGTGGATGTAGCCATCCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATG 600
557 GGGTGGATGTAGCCATCCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATG 616
601 TTGCCAAGAGTGGCTCTTTCCGGGTGTTTCTTGGGTGATGACCTTGAAAGGGAGGAC 660
617 TTGCCAAGAGTGGCTCTTTCCGGGTGTTTCTTGGGTGATGACCTTGAAAGGGAGGAC 676
661 AGTACATGTTTACAGACAACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 720
677 AGTACATGTTTACAGACAACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 736
721 CCAGGACCCCTATGTCATGAGACTGTGTGAGATGCTGAGCTCTGGCAGATGGAATG 780
737 CCAGGACCCCTATGTCATGAGACTGTGTGAGATGCTGAGCTCTGGCAGATGGAATG 796
781 ACAGAGTGGCCATCTTACCATGCTACTTTCTGTGAGTTTCATCAAGAGAAAAGTAAC 840
797 ACAGAGTGGCCATCTTACCATGCTACTTTCTGTGAGTTTCATCAAGAGAAAAGTAAC 856
841 TTCCCTCATCTAGCTATTGCTATTTCCTGTGACCGTCATCAGTTATTGTTATCCA 900
857 TTCCCTCATCTAGCTATTGCTATTTCCTGTGACCGTCATCAGTTATTGTTATCCA 916
901 TCCTTTTTCCTGATTGCTACTACATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA 960
917 TCCTTTTTCCTGATTGCTACTACATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA 976
961 CTGAGGTATGGAGCTCCATCATCA 985
977 CTGAGGTATGGAGCTCCATCATCA 1001

RESULT 14

ACA98190
D ACA98190 standard; cDNA; 1016 BP.

X ACA98190;

X 25-JUL-2003 (first entry)

Novel human secreted and transmembrane protein PRO702 cDNA.

Human; secreted and transmembrane protein; PRO; transgenic animal;
knockout; chromosome identification; tissue typing; tumour;
chondrocyte proliferation; chondrocyte differentiation;
tumor necrosis factor-alpha release stimulator; gene; ss.

SS Homo sapiens.

X US2003036144-A1.

XX 20-FEB-2003.
XX
XX
XX 01-JUL-2002; 2002US-00187601.
XX
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 17-OCT-1997; 97US-0062250P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-0063120P.
XX 24-OCT-1997; 97US-0063121P.
XX 28-OCT-1997; 97US-0063540P.
XX 28-OCT-1997; 97US-0063541P.
XX 28-OCT-1997; 97US-0063544P.
XX 28-OCT-1997; 97US-0063564P.
XX 28-OCT-1997; 97US-0063734P.
XX 31-OCT-1997; 97US-0063870P.
XX 31-OCT-1997; 97US-0064103P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0065120P.
XX 24-NOV-1997; 97US-0065466P.
XX 24-NOV-1997; 97US-0065772P.
XX 11-DEC-1997; 97US-0069335P.
XX 12-DEC-1997; 97US-0069425P.
XX 17-DEC-1997; 97US-0069870P.
XX 18-DEC-1997; 97US-0068017P.
XX 19-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077649P.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078939P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079786P.
XX 31-MAR-1998; 98US-0080107P.
XX 31-MAR-1998; 98US-0080194P.
XX 01-APR-1998; 98US-0080327P.
XX 01-APR-1998; 98US-0080333P.
XX 08-APR-1998; 98US-0081049P.
XX 08-APR-1998; 98US-0081070P.
XX 09-APR-1998; 98US-0081195P.
XX 15-APR-1998; 98US-0081838P.
XX 21-APR-1998; 98US-0082568P.
XX 21-APR-1998; 98US-0082569P.
XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 28-APR-1998; 98US-0083322P.
XX 29-APR-1998; 98US-0083495P.
XX 29-APR-1998; 98US-0083496P.
XX 29-APR-1998; 98US-0083499P.
XX 29-APR-1998; 98US-0083559P.
XX 05-MAY-1998; 98US-0084366P.
XX 06-MAY-1998; 98US-0084414P.
XX 07-MAY-1998; 98US-0084639P.
XX 07-MAY-1998; 98US-0084640P.
XX 07-MAY-1998; 98US-0084643P.
XX 15-MAY-1998; 98US-0085573P.
XX 15-MAY-1998; 98US-0085580P.
XX 15-MAY-1998; 98US-0085582P.
XX 15-MAY-1998; 98US-0085700P.
XX 18-MAY-1998; 98US-0086023P.
XX 22-MAY-1998; 98US-0086392P.
XX 22-MAY-1998; 98US-0086486P.
XX 28-MAY-1998; 98US-0087098P.
XX 28-MAY-1998; 98US-0087208P.
XX 02-JUN-1998; 98US-0087609P.
XX 02-JUN-1998; 98US-0087759P.
XX 03-JUN-1998; 98US-0087827P.
XX 04-JUN-1998; 98US-0088025P.
XX 04-JUN-1998; 98US-0088028P.
XX 04-JUN-1998; 98US-0088029P.
XX 04-JUN-1998; 98US-0088033P.
XX 04-JUN-1998; 98US-0088326P.
XX 05-JUN-1998; 98US-0088167P.

Db 437 AGACATCTATGAAGTTTGTCAAGAACTGTGATAGCAGGATTAGGAACTAGAGAAAT 496
2y 481 TCTACTACATCGTCAGAGAGAGAGAACTACAGGAAATCCCTAACCCACTCGAGAAATC 540
Db 497 TCTACTACATCGTCAGAGAGAGAGAACTACAGGAAATCCCTAACCCACTCGAGAAATC 556
2y 541 GGGGTGGAATCTAGCCATGCCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATG 600
Db 557 GGGGTGGAATCTAGCCATGCCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATG 616
2y 601 TTGCAAGAGTGGCTTTCTCGGCTGTTCAATGGCGTGAATGACCTTGAAGAGGAGGAC 660
Db 617 TTGCAAGAGTGGCTTTCTCGGCTGTTCAATGGCGTGAATGACCTTGAAGAGGAGGAC 676
2y 661 AGTACATGTTTACACAGACAACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 720
Db 677 AGTACATGTTTACACAGACAACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 736
2y 721 CCAGCGACCCCTATGGTCATGAGACATGTTGTGAGATGCTGAGCTCTGGCAGATGGAATG 780
Db 737 CCAGCGACCCCTATGGTCATGAGACATGTTGTGAGATGCTGAGCTCTGGCAGATGGAATG 796
2y 781 ACACAGATGTCATCTTACCATGPACTTCTCTGTGAGTTTCATCAAGAGAAAGAAATAC 840
Db 797 ACACAGATGTCATCTTACCATGPACTTCTCTGTGAGTTTCATCAAGAGAAAGAAATAC 856
2y 841 TTCCCTCATCTACGTAATTTGCTATTTTCTGTGACCGTCATTACAGTTATTGTTATCCA 900
Db 857 TTCCCTCATCTACGTAATTTGCTATTTTCTGTGACCGTCATTACAGTTATTGTTATCCA 916
2y 901 TCCCTTTTCTCATGTTACTACATTTGATCTGAGTCAACATGCTAGCATAGAAATGCTAAA 960
Db 917 TCCCTTTTCTCATGTTACTACATTTGATCTGAGTCAACATGCTAGCATAGAAATGCTAAA 976
2y 961 CTGAGTATGAGGCTCCATCATCA 985
Db 977 CTGAGTATGAGGCTCCATCATCA 1001

RESULT 15
ACA93832
ID ACA93832 standard; cDNA; 1016 BP.
XX AC
XX ACA93832;
XX
DT 18-JUL-2003 (first entry)
XX
DE Human secreted/transmembrane protein (PRO) cDNA #50.
XX
KW Human; ss; gene; secreted protein; transmembrane protein; PRO; tumour;
KW proliferation; differentiation; chondrocyte cell; TNF-alpha;
KW tumour necrosis factor-alpha; gene therapy.
XX
OS Homo sapiens.
XX
PN US2003036149-A1.
XX
XX
PD 20-FEB-2003.
XX
XX
PF 02-JUL-2002; 2002US-00187746.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 29-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.

PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079786P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081328P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
PR 07-MAY-1998; 98US-0084640P.
PR 07-MAY-1998; 98US-0084643P.
PR 15-MAY-1998; 98US-0085579P.
PR 15-MAY-1998; 98US-0085580P.
PR 15-MAY-1998; 98US-0085582P.
PR 18-MAY-1998; 98US-0085700P.
PR 22-MAY-1998; 98US-0086023P.
PR 22-MAY-1998; 98US-0086392P.
PR 22-MAY-1998; 98US-0086486P.
PR 28-MAY-1998; 98US-0087098P.
PR 28-MAY-1998; 98US-0087208P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088555P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.

677 AGTACATGTCACAGACACACTCCACTGCGAGAACTATAGCAACTGGAATGAGGGGAAC 736
721 CCAGCGACCCCTATGGTCAATGAGGACTGTGTGAGATGCTGAGCTCTGGCAGATGGAATG 780
737 CCAGCGACCCCTATGGTCAATGAGGACTGTGTGAGATGCTGAGCTCTGGCAGATGGAATG 796
781 ACACAGAGTCCCATCTTACCATGCTATTTGCTGTGAGTTCATCAAGAGAAAAAGTAAC 840
797 ACACAGAGTCCCATCTTACCATGCTATTTGCTGTGAGTTCATCAAGAGAAAAAGTAAC 856
841 TTCCTCATCTACGTATTTGCTATTTTCCTGTGACCGTCATTACAGTTATTGTTATCCA 900
857 TTCCTCATCTACGTATTTGCTATTTTCCTGTGACCGTCATTACAGTTATTGTTATCCA 916
901 TCCTTTTTTTCCTGATTGTACTACATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA 960
917 TCCTTTTTTTCCTGATTGTACTACATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA 976
961 CTGAGGTATGGAGCCTCCATCATCA 985
977 CTGAGGTATGGAGCCTCCATCATCA 1001

Search completed: February 23, 2004, 21:39:04
Job time : 657 secs

GenCore version 5.1.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

M nucleic - nucleic search, using sw model
un on: February 23, 2004, 20:35:46 ; Search time 4308 Seconds
(without alignment)
11056.216 Million cell updates/sec

title: US-09-600-932-1
effect score: 1595
sequence: 1 cagcaatgaatgcttgc.....gatttaagaaaaaacggagcc 1595

coring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

searched: 27513289 seqs, 14931090276 residues

total number of hits satisfying chosen parameters: 55026578

inimum DB seq length: 0
maximum DB seq length: 2000000000
post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

database : EST:
1: em_estba:*
2: em_esthum:*
3: em_estlin:*
4: em_estmuv:*
5: em_estrov:*
6: em_esttbl:*
7: em_esttro:*
8: em_htc:*
9: gb_est1:*
10: gb_est2:*
11: gb_htc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vrt:*
21: em_gss_fun:*
22: em_gss_man:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rod:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

result	No.	Score	Match	Length	ID	Description
1	830.8	52.1	834	29	AY409410	AY409410 Homo sapi
2	826	51.8	834	29	AY409411	AY409411 Pan trogl
3	721.6	45.2	752	12	BM009998	BM009998 603630745
4	694.2	43.5	735	13	BM009456	BM009456 BX090456

5	675.8	42.4	4591	11	AK028423	AK028423 Mus muscu
6	645.2	40.5	834	29	AY409412	AY409412 Mus muscu
7	566.8	35.5	609	12	BM010788	BM010788 603629302
8	494.2	31.0	747	14	CB228545	CB228545 AGENCOURT
9	467.8	29.3	560	13	EX494095	EX494095 DXFZP779A
10	455.8	28.6	955	10	BB612129	BB612129 BB612129
11	432.8	27.1	457	13	EX496500	EX496500 DXFZP779M
12	414.2	26.0	492	10	BF078010	BF078010 228226 MA
13	398.2	25.0	636	13	EX671934	EX671934 BX671934
14	396.6	24.9	930	14	CF378429	CF378429 AGENCOURT
15	391	24.5	499	12	BI467460	BI467460 389071 MA
16	358.2	22.5	496	14	N74624	N74624 za55c02.s1
17	351	22.0	362	14	R97480	R97480 YG53h02.r1
18	337	20.5	352	9	AV654961	AV654961 AV654961
19	302.6	19.0	654	12	BI067078	BI067078 P9fln.pk0
20	300.8	18.9	890	14	CF378456	CF378456 AGENCOURT
21	298.4	18.7	368	14	W00944	W00944 za55c02.r1
22	293	18.4	357	9	AV653117	AV653117 AV653117
23	278.6	17.5	354	10	AW435866	AW435866 75149 MAR
24	274.8	17.2	380	10	BB869893	BB869893 BB869893
25	273.4	17.1	449	14	R97432	R97432 YG53h03.s1
26	268.6	16.8	1239	12	BM551435	BM551435 AGENCOURT
27	265.4	16.6	361	10	BB869996	BB869996 BB869996
28	255.2	16.0	325	13	BY332718	BY332718 BY332718
29	251	15.7	743	13	EU290748	EU290748 603608166
30	249	15.6	451	10	AW355638	AW355638 pft1c.pk0
31	241.6	15.1	486	12	BM426695	BM426695 p9f2n.pk0
32	240.6	15.1	1383	11	AK003121	AK003121 Mus muscu
33	240	15.0	326	14	R29493	R29493 FL-1006D 22
34	239.6	15.0	344	13	BY008444	BY008444 BY008444
35	237.2	14.9	1201	13	EX427124	EX427124 BX427124
36	229	14.4	894	13	BU147034	BU147034 AGENCOURT
37	219.6	13.8	1143	13	EX333394	EX333394 BX333394
38	197.4	12.4	670	14	CB141360	CB141360 K-EST0194
39	192	12.0	1132	13	EX394893	EX394893 BX394893
40	188.6	11.8	324	13	BY331120	BY331120 BY331120
41	186	11.7	1201	13	EX394625	EX394625 BX394625
42	185.8	11.6	1201	13	EX394624	EX394624 BX394624
43	181.2	11.4	734	14	CB430533	CB430533 606434 MA
44	179	11.2	962	13	BQ927000	BQ927000 AGENCOURT
45	175.4	11.0	505	14	CB418352	CB418352 591149 MA

ALIGNMENTS

RESULT 1	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL	PUBMED	REFERENCE	AUTHORS	TITLE
AY409410	Homo sapiens	COLEC10 gene, VIRTUAL TRANSCRIPT, partial sequence, genomic survey sequence.	AY409410	AY409410.1	GI:39765378	GSS.	Homo sapiens (human)	1	(bases 1 to 834)	Clark, A.G., Gnanowski, S., Nielson, R., Thomas, P., Kejarawal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.	Science	302 (5652), 1960-1963 (2003)	2	(bases 1 to 834)	Clark, A.G., Gnanowski, S., Nielson, R., Thomas, P., Kejarawal, A., Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B., Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Sninsky, J.J., Adams, M.D. and Cargill, M.
										Inferring nonneutral evolution from human-chimp-mouse orthologous gene trios					Direct Submission

JOURNAL Submitted (16-Nov-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering
them based on alignment.
FEATURES
source Location/Qualifiers
gene
1..834
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
-1..>834
/gene="COLEC10"
/locus_tag="HCM3548"
ORIGIN
Query Match 52.1%; Score 830.8; DB 29; Length 834;
Best Local Similarity 99.4%; Pred. No. 4.1e-215;
Matches 832; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 6 ATGAATGGCTTTGGCATCTCTTGGTTCGAGAAACCAATTTATCTCTCGTACTATTTCTT 65
Db 1 ATGAATGGCTTTGGCATCTCTTGGTTCGAGAAACCAATTTATCTCTCGTACTATTTCTT 60
QY 66 TTGCAAAATTCAGAGTCTGGGTCTGGATATTCATAGCCGCTCTACCGCTGAAGTCTGTGCC 125
Db 61 TTGCAAAATTCAGAGTCTGGGTCTGGATATTCATAGCCGCTCTACCGCTGAAGTCTGTGCC 120
QY 126 ACACACAAATTTCCAGGACCCAAAGGAGATGATGTGAAAGGAGATCCAGAGAA 185
Db 121 ACACACAAATTTCCAGGACCCAAAGGAGATGATGTGAAAGGAGATCCAGAGAA 180
QY 186 GAGGAAAGCATGGCAAGTGGGACGCTGGGCGGAAAGCAATTAAGGAGAACTGGGT 245
Db 181 GAGGAAAGCATGGCAAGTGGGACGCTGGGCGGAAAGCAATTAAGGAGAACTGGGT 240
QY 246 GATATCGGAGATCGGGGCAATTTGGCAAGATCGGTGAAAGGAGATCCAGAGAA 305
Db 241 GATATCGGAGATCGGGGCAATTTGGCAAGATCGGTGAAAGGAGATCCAGAGAA 300
QY 306 GGGGAAAGGTTTGGTTCGAAATACCTGGGAAAGCAAGCAAGCAGGTACTGTCTGTAT 365
Db 301 GGGGAAAGGTTTGGTTCGAAATACCTGGGAAAGCAAGCAAGCAGGTACTGTCTGTAT 360
QY 366 TGTGGAAGATACCGGAAATTTGTTGGCAAACTGGGATATTAGTATTCCTCCGCTCAAGACA 425
Db 361 TGTGGAAGATACCGGAAATTTGTTGGCAAACTGGGATATTAGTATTCCTCCGCTCAAGACA 420
QY 426 TCTATGAAGTTTGTCAAGATGTGTAGCAGGATAGGAAAGCAAGCAGGTACTGTCTGTAT 485
Db 421 TCTATGAAGTTTGTCAAGATGTGTAGCAGGATAGGAAAGCAAGCAGGTACTGTCTGTAT 480
QY 486 TATATCGTGCAGAGAGAGAACTACAGGGAATCCCTTAACCCACTGCAGGATTCGGGGT 545
Db 481 TATATCGTGCAGAGAGAGAACTACAGGGAATCCCTTAACCCACTGCAGGATTCGGGGT 540
QY 546 GGAATCTAGCCATGCCAAGATGAAGTGCACACACATCTCGTCTGACTATGTGCC 605
Db 541 GGAATCTAGCCATGCCAAGATGAAGTGCACACACATCTCGTCTGACTATGTGCC 600
QY 606 AACAGTGGCTTCTTTCCGGTGTTCATTTGGCGTGAATGACCTTGAAGAGGAGGACAGTAC 665
Db 601 AACAGTGGCTTCTTTCCGGTGTTCATTTGGCGTGAATGACCTTGAAGAGGAGGACAGTAC 660
QY 666 ATGTTTCAAGACAACTCACTGAGAACTATAGCAATCTGGAATAGGGGGGAAACCCAGC 725
Db 661 ATGTTTCAAGACAACTCACTGAGAACTATAGCAATCTGGAATAGGGGGGAAACCCAGC 720
QY 726 GACCCCTATGGTCTAGGAGCTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATGACACA 785
Db 721 GACCCCTATGGTCTAGGAGCTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATGACACA 780
QY 786 GAGTGCCATCTTACCATGTACTTTGTCTGTGAGTTTCATCAAGAGAAAGTAA 839
Db 781 GAGTGCCATCTTACCATGTACTTTGTCTGTGAGTTTCATCAAGAGAAAGTAA 834

RESULT 2
LOCUS AY409411
DEFINITION Pan troglodytes COLEC10 gene, VIRTUAL TRANSCRIPT, partial sequence,
genomic survey sequence.
ACCESSION AY409411
VERSION AY409411.1 GI:39765379
KEYWORDS GSS.
SOURCE Pan troglodytes (chimpanzee)
ORGANISM Pan troglodytes
REFERENCE
AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferrira,S., Wang,G., Zheng,X.H., White,T.J., Shinsky,J.J.,
Adams,M.D. and Cargill,M.
TITLE Inferring nonneutral evolution from human-chimp-mouse orthologous
gene trios
JOURNAL Science 302 (5652), 1960-1963 (2003)
PUBMED 14671302
REFERENCE
AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferrira,S., Wang,G., Zheng,X.H., White,T.J., Shinsky,J.J.,
Adams,M.D. and Cargill,M.
TITLE Direct Submission
JOURNAL Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering
them based on alignment.
FEATURES
source Location/Qualifiers
1..834
/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
-1..>834
/gene="COLEC10"
/locus_tag="HCM3548"
ORIGIN
Query Match 51.8%; Score 826; DB 29; Length 834;
Best Local Similarity 99.4%; Pred. No. 8.4e-214;
Matches 829; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 6 ATGAATGGCTTTGGCATCTCTTGGTTCGAGAAACCAATTTATCTCTCGTACTATTTCTT 65
Db 1 ATGAATGGCTTTGGCATCTCTTGGTTCGAGAAACCAATTTATCTCTCGTACTATTTCTT 60
QY 66 TTGCAAAATTCAGAGTCTGGGTCTGGATATTCATAGCCGCTCTACCGCTGAAGTCTGTGCC 125
Db 61 TTGCAAAATTCAGAGTCTGGGTCTGGATATTCATAGCCGCTCTACCGCTGAAGTCTGTGCC 120
QY 126 ACACACAAATTTCCAGGACCCAAAGGAGATGATGTGAAAGGAGATCCAGAGAA 185
Db 121 ACACACAAATTTCCAGGACCCAAAGGAGATGATGTGAAAGGAGATCCAGAGAA 180
QY 186 GAGGAAAGCATGGCAAGTGGGACGCTGGGCGGAAAGCAATTAAGGAGAACTGGGT 245
Db 181 GAGGAAAGCATGGCAAGTGGGACGCTGGGCGGAAAGCAATTAAGGAGAACTGGGT 240
QY 246 GATATCGGAGATCGGGGCAATTTGGCAAGATCGGTGAAAGGAGATCCAGAGAA 305
Db 241 GATATCGGAGATCGGGGCAATTTGGCAAGATCGGTGAAAGGAGATCCAGAGAA 300
QY 306 GGGGAAAGGTTTGGTTCGAAATACCTGGGAAAGCAAGCAAGCAGGTACTGTCTGTAT 365
Db 301 GGGGAAAGGTTTGGTTCGAAATACCTGGGAAAGCAAGCAAGCAGGTACTGTCTGTAT 360
QY 366 TGTGGAAGATACCGGAAATTTGTTGGCAAACTGGGATATTAGTATTCCTCCGCTCAAGACA 425

```

jb 361 TGTGGAGATACCGAAATTTGTTGGACACTGGATATTAGTATTGCTCGGCTCAAGACA 420
y 426 TCTATGAAGTTTGTCAAGATGTGATAGCAGGATTTAGGAACTGAAAGAAATTTCTAC 485
b 421 TCTATGAAGTTTGTCAAGATGTGATAGCAGGATTTAGGAACTGAAAGAAATTTCTAC 480
y 486 TACATCGTCAGAGAAAGAGAACTACAGGAACTCCTAAACCCACTGACAGGATTCGGGGT 545
b 481 TACATCGTCAGAGAAAGAGAACTACAGGAACTCCTAAACCCACTGACAGGATTCGGGGT 540
y 546 GGAATGCTACCATGCCAAGAGTAAGTGTGCCAACACACTCATCGCTGACTATTTGCC 605
b 541 GGAATGCTACCATGCCAAGAGTAAGTGTGCCAACACACTCATCGCTGACTATTTGCC 600
y 606 AAGAGTGGCTTTCTTGGGGTGTTCATTTGGCGTGAATGACCTTGAAGGAGGAGCAGTAC 665
b 601 AAGAGTGGCTTTCTTGGGGTGTTCATTTGGCGTGAATGACCTTGAAGGAGGAGCAGTAC 660
y 666 ATGTTCACAGACAACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAAACCCAGC 725
b 661 GTGTTCACAGACAACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAAACCCAGC 720
y 726 GACCCCTATGCTATGAGGACTGTGGAGCTGCTGAGTTCATCAAGAAAGAAAGTAA 839
b 721 GACCCCTATGCTATGAGGACTGTGGAGCTGCTGAGTTCATCAAGAAAGAAAGTAA 834
y 786 GAGTGCCTATTTACCAGTACTTTGTCTGTGAGTTCATCAAGAAAGAAAGTAA 839
b 781 GAGTGCCTATTTACCAGTACTTTGTCTGTGAGTTCATCAAGAAAGAAAGTAA 834

RESULT 3
LOCUS NM009998 752 bp mRNA linear EST 30-OCT-2001
DEFINITION 603630745F1 NIH_MGC_41 Homo sapiens cDNA clone IMAGE:5444459 5',
mRNA sequence.
ACCESSION NM009998.1 GI:16524352
VERSION NM009998.1
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 752)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-x@mail.nih.gov
Tissue Procurement: DCTD/DTF
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LICM1923 row: j column: 12
High quality sequence stop: 752.
Location/Qualifiers
1. 752
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5444459"
/tissue_type="amelanotic melanoma, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_41"
/notes="Organ: skin; Vector: pOTB7; Site:1: XhoI; Site:2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and

```

FEATURES

source

ORIGIN

```

Query Match 45.2%; Score 721.6; DB 12; Length 752;
Best Local Similarity 99.2%; Pred. No. 2.4e-185;
Matches 746; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

QY 150 AAAGGAGATGATGGTGAAGAGGAGATCCAGGAGAGAGGAAAGCATGGCAAAAGTGGGA 209
Db 2 AACCGAGATGATGGTGAAGAGGAGATCCGAGAGAGAGGAAAGCATGGCAAAAGTGGGA 61
QY 210 CGCATGGGGCCCAAGAGGAATTAAGGAGAACTGGGTGTATATGGGAGATCGGGGCAATATT 269
Db 62 CGCATGGGGCCCAAGAGGAATTAAGGAGAACTGGGTGTATATGGGAGATCAGGGCAATATT 121
QY 270 GGAAGACTGGGGCCCATTTGGGAAAGAGGGTGCAAGGGGAAAAGGTTTCTCTTGGGAATA 329
Db 122 GGAAGACTGGGGCCCATTTGGGAAAGAGGGTGCAAGGGGAAAAGGTTTCTCTTGGGAATA 181
QY 330 CTGGGAGAAAAAGGCAAGCAGGTACTGTCTGTGATTGTGGAAGATACCGGAAATTTGTT 389
Db 182 CTGGGAGAAAAAGGCAAGCAGGTACTGTCTGTGATTGTGGAAGATACCGGAAATTTGTT 241
QY 390 GGAACAATCGATATTAGTATTGCCCGGCTCAAGACATCTATGAAGTTTGTCAAGAATGTG 449
Db 242 GGAACAATCGATATTAGTATTGCCCGGCTCAAGACATCTATGAAGTTTGTCAAGAATGTG 301
QY 450 ATAGCAGGGAATAGGGAAGTGAAGAGAAATCTTACTACATCTGTCAGGAGAGAGAAAC 509
Db 302 ATAGCAGGGAATAGGGAAGTGAAGAGAAATCTTACTACATCTGTCAGGAGAGAGAAAC 361
QY 510 TACAGGGAATCCCTAACCCACTGCAGGATTCGGGGTGAATGCTAGCCATGCCCAAGGAT 569
Db 362 TACAGGGAATCCCTAACCCACTGCAGGATTCGGGGTGAATGCTAGCCATGCCCAAGGAT 421
QY 570 GAAGCTGCCAACACACTCATCTGCTACTATGTTGCCAGAGTGGCTTCTTTCGGGGTTC 629
Db 422 GAAGCTGCCAACACACTCATCTGCTACTATGTTGCCAGAGTGGCTTCTTTCGGGGTTC 481
QY 630 ATTGGCGTGAATGACCTTGAAGGAGGAGGACAGTACATGTTTACAGACAAACACTCCACTG 689
Db 482 ATTGGCGTGAATGACCTTGAAGGAGGAGGACAGTACATGTTTACAGACAAACACTCCACTG 541
QY 690 CAGAACTATAGCAACTGGAATGAGGGGGAAACCCAGGACCCCTATGTCATGAGGACTGT 749
Db 542 CAGAACTATAGCAACTGGAATGAGGGGGAAACCCAGGACCCCTATGTCATGAGGACTGT 601
QY 750 GTGGAGATGCTGAGCTCTGGCAGATGG-AATGACACAGAGTGCCATCTTACCATGTACTT 808
Db 602 GTGGAGATGCTGAGCTCTGGCAGATGG-AATGACACAGAGTGCCATCTTACCATGTACTT 661
QY 809 TGTCTGTGAGTTTCATCAAGAGAAAGAAAGTAACTTCCCTCATCTCTACGTTATGCTATTTT 868
Db 662 TGTCTGTGAGTTTCATCAAGAGAAAGAAAGTAACTTCTCTATCTCTACGTTATGCTATTTT 720
QY 869 CTGTGACCGCTCATTTACAGTATTGTTATCCA 900
Db 721 CTGTGACCGCTCATTTACAGTATTGTTATCCA 752

```

RESULT 4

BX090456

LOCUS

DEFINITION

BX090456

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

735 bp mRNA linear EST 23-JAN-2003
 BX090456 Soares fetal liver spleen INFLS Homo sapiens cDNA clone
 IMAGE:296450, mRNA sequence.

GI:27822119
 BX090456.1

Homo sapiens (human)

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

Superscript II RT (Life Technologies). Note: this is a
 NIH_MGC Library."

Group Phase I & II Team.
 Analysis of the mouse transcriptome based on functional annotation
 of 60,770 full-length cDNAs
 Nature 420, 563-573 (2002)
 6 (bases 1 to 4591)
 REFERENCES
 Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P.,
 Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,
 Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T.,
 Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T.,
 Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,
 Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M.,
 Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N.,
 Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N.,
 Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T.,
 Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akanhira, S.,
 Takeda, Y., Tanaka, T., Tonari, A., Toya, T., Yasunishi, A.,
 Muramatsu, M. and Hayashizaki, Y.
 Direct Submission
 Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of
 Physical and Chemical Research (RIKEN), Laboratory for Genome
 Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
 RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Teurumi-ku, Yokohama,
 Kanagawa 230-0045, Japan (E-mail: genome-res@gs.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222,
 Fax: 81-45-503-9216)
 cDNA library was prepared and sequenced in Mouse Genome
 Encyclopedia Project of Genome Exploration Research Group in Riken
 Genomic Sciences Center and Genome Science Laboratory in RIKEN.
 Division of Experimental Animal Research in Riken contributed to
 prepare mouse tissues.
 Please visit our web site for further details.
 URL: http://genome.gsc.riken.go.jp/
 URL: http://fantom.gsc.riken.go.jp/
 Location/Qualifiers
 1. 4591
 /organism="Mus musculus"
 /mol_type="mRNA"
 /strain="C57BL/6J"
 /db_xref="FANTOM:DB:4432240A008"
 /db_xref="MG1:2390324"
 /db_xref="taxon:10090"
 /clone="443240A008"
 /tissue_type="liver"
 /clone_lib="RIKEN full-length enriched mouse cDNA library"
 /dev_stage="14 days embryo"
 7. 840
 /note="unnamed protein product; COLLECTIN 34 homolog [Homo
 sapiens] (SPTR|Q9Y627, evidence: FASTA, 88.8%ID,
 100%length, match=831)
 putative"
 /codon_start=1
 /protein_id="BAC25941.1"
 /db_xref="GI:26324374"
 /translation="MNGFVLLRSNLSMLLVALLHFSGLDVIDRSAAEVCATHTI
 SPQKGDGRGTGKDGKGVKQPGKVGKGLGDMGAQNIKSGPFIKKGDKGE
 KGLLGIPEKGGAGTICDQKVRKVGQDLSVRLKTSMKFIKNVIGIRETEKFKY
 YIVQEKVRESLTHCRIRGMLAMPKDEVNLIADYVAKSGFRFVIGVNDLREG
 QYVFTDPTLQNTYNNKKEPSPDSHEDCEVMSGRWNTDECHLTMYFVCEPVKK
 X"

FEATURES

source

CDS

ORIGIN

Query Match 42.4%; Score 675.8; DB 11; Length 4591;
 Best Local Similarity 83.1%; Pred. No. 1.4e-172;
 Matches 782; Conservative 0; Mismatches 157; Indels 2; Gaps 1;
 2 AGCAATGAATGGCTTCATCCTTGGTTCGAGAAACCAATTAATCTCTGCTACTATT 61
 3 AGTCATGAATGGCTTTAGATCTCTGCTTCGAGCAACCTTCAATGCTCTGGTCTAGC 62
 62 TCTTTTGCATATTCAGAGTCTGGGTCTGGATATTGATAGCGCTTACCGCTGAAGTCTG 121
 63 TCTTTTGCATATTCAGAGTCTGGGTCTGGATATTGATAGCGCTTACCGCTGAAGTCTG 122

QY 122 TGCACACACACATTTCCACAGGACCCCAAGGAGNTGATGTGAAAAAGGAGATCCAGG 181
 Db 123 TGCACACACATACCATTTCCACAGGACCTAAAGGGGATGATGTGAAAGAGGTGACACAGG 182
 QY 182 AGAAGAGGGGAAAGCATCGGCAAAAGTGGGAGCGCATTGGGGCCGAAAGGAATTAAGAGGAGAACT 241
 Db 183 AGAAGAGGCGCAAGGATGGCAAAAGTGGGAGCGCCAGGAGACCAAAGGAGTGAAGAGGAGCT 242
 QY 242 GGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGCAAGAGGTGA 301
 Db 243 GGGTGATATGGGAGCGCCAGGGAATATTGGCAAGCTTGGCCCTATTGGCAAGAGGTGA 302
 QY 302 CAAAGGGGAAAAAGGTTTGGTTGGAATACCTGGAGAAAAAGGCAAGCAGGTAATCTGCTG 361
 Db 303 CAAAGGGGAAAAAGGTTTGGTTGGAATTCCTGGAGAAAAAGGCAAGCAGGTAATCTGCTG 362
 QY 362 TGATTGTGGAGATACCGGAAATTTGTTGGACAACTGGATATTAGTATTGCTCCCGCTCAA 421
 Db 363 TGATTGTGGCAGGTACCGGAAAGTGGTTGGACAACTGGATATTAGTATTGCTCCGCTCAA 422
 QY 422 GACATCTATGAAGTTTGTCAAGAACTGATAGCAGGATTTAGGGAACTGAGAGAAATTT 481
 Db 423 GACATCAATGAATTCATCAGAACTGTTATAGCGGATCCGGGAACTGAGAGAAATTT 482
 QY 482 CTACTACATGTCAGGAAAGAGAAGAACTACAGGGAATCCCTAACCCACTGCAGGATTCG 541
 Db 483 CTACTACATGTCAGGAGGAGAGAACTACAGGGAATCTCTGACCCACTGCAGGATTCG 542
 QY 542 GGGTGAATGCTAGCCATGCCCAAGGTAAGCTCCACACACTCATCGCTGCTGACTATGT 601
 Db 543 AGGAGGATGCTAGCCATGCCCAAGGTAAGCTCCCAAGGTAAGCTGTTAACCCCTTATTGCTGACTATGT 602
 QY 602 TGCCAAGAGTGGCTTCTTTCCGGGTGTTCAATGGCGTGAATGACCTTGAAGGGAGGAGCA 661
 Db 603 CGCCAAGAGTGGTCTTCTTCAGAGTGTTCATTGGGTCAATGACCTTGAAGGGAGGAGCA 662
 QY 662 GTACATGTTACAGACAACTCCACTCGCAACTATAGCAACTGCGAGCTCGGAGATGGAATGA 721
 Db 663 ATATGTTGTTACAGATAACACTCCATTCGAACTACAGCAACTGGAAGGAGGAGGAGCA 722
 QY 722 CAGCGACCCCTATGTCATGAGGACTGTGTGGAGATGCTGAGCTCGGAGATGGAATGA 781
 Db 723 TAGTGACCCCTCGGCGCATGAGACTGTGTGGAGATGTTGAGCTCTGGCAGGTGGAATGA 782
 QY 782 CACAGAGTCCCATTTACCATGCTATCTGTCGTGAGTTCATCAAGAGAAAGAAAGTAAT 841
 Db 783 CACAGAGTGTCACTTACCATGTTATTTGCTGTGAGTTTGTCTCAGAGAAAGAAAGTAAT 842
 QY 842 TCCTCATCTACGTATTGCTATTTCCTGTGACCGCTCATTTACAGTTATTGCTTATCCAT 901
 Db 843 TTCTCATGTTACAGTCACTCCCTTTCCTGGTCTC--TCCTAGTAGTCACTTTTATCCAT 900
 QY 902 CTTTCTTTTCTCGATGTTACTACATTTGATCTGAGTCAACA 942
 Db 901 CTTTGGCTCTCTAAATACATTTGCTTTTGTCAAATGCCATA 941
 RESULT 6
 AY409412
 LOCUS
 DEFINITION
 Mus musculus COLEC10 gene, VIRUAL TRANSCRIPT, partial sequence,
 genomic survey sequence.
 AY409412
 AY409412.1 GI:39765380
 GSS.
 Mus musculus (house mouse)
 Mus musculus
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 834)
 Clark, A.G., Gnanowski, S., Nielson, R., Thomas, P., Kejarival, A.,
 Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B.,
 Ferriera, S., Wang, G., Zheng, X.H., White, T.J., Shinsky, J.J.,

QY	666	ATGTTTCAGACNACACTCCACTGCTCAGAGACTATAGCAACTGGATGAGGGGAGACCAGC	720			
Db	661	GTGTTTCAGAGATACACTCCATTGCGAAGACTACAGCAACTGGAGAGAGAGAACTAGT	720			
QY	726	GACCCCTATGCTCATGAGGACTGTGTGGAGATGCTGAGCTCTCGCAGATGGAATGACACA	785			
Db	721	GACCCCTCGGCCATGAGGACTGTGTGGAGATGCTGAGCTCTCGCAGTGGAAATGACACA	780			
QY	786	GAGTGCCACTTTACCATGTACTTTGCTGTGAGCTTCATCAAGAGAGAAAAGTAA	839			
Db	781	GAGTGTCACCTTACCATGTATTGTGCTGTGAGTTGTCAAGAAGAGAAAATAA	834			
RESULT 7						
BM010788						
LOCUS	509 bp. mRNA linear EST 30-OCT-2000					
DEFINITION	603629302P1 NIH_MGC_41 Homo sapiens cDNA clone IMAGE:5434680 5',					
mRNA sequence.						
ACCESSION	BM010788					
KEYWORDS	EST.					
SOURCE	Homo sapiens (human)					
ORGANISM	Homo sapiens					
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.					
	1. (bases 1 to 609)					
	NIH-MGC http://mgc.nci.nih.gov/ .					
	National Institutes of Health, Mammalian Gene Collection (MGC)					
	Unpublished (1999)					
COMMENT	Contact: Robert Strausberg, Ph.D.					
	Email: cgapbs-remail.nih.gov					
	Tissue Procurement: DCTD/DTF					
	cDNA Library Preparation: Ling Hong/Rubin Laboratory					
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)					
	DNA Sequencing by: Incyte Genomics, Inc.					
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov						
Place: LCM912 row: c column: 01						
High quality sequence stop: 608.						
FEATURES	Location/Qualifiers					
	1..609					
	/organism="Homo sapiens"					
	/mol_type="mRNA"					
	/db_xref="taxon:9606"					
	/clone="IMAGE:5434680"					
ORIGIN	/tissue_type="amelanotic melanoma, cell line"					
	/lab_host="DH10B (phage-resistant)"					
	/clone_lib="NIH MGC 41"					
	/note="Organ: skin; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene), Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."					
	Query Match 35.5%; Score 566.8; DB 12; Length 609;					
	Best Local Similarity 99.3%; Pred. No. 3.8e-143; Indels 2; Gaps 2;					
	Matches 590; Conservative 0; Mismatches 2;					
QY	367	GTGGAAGATACCGGAAATTTGTGGCAACTGGATATTAGTATTCGCCGCTCAAGACAT	426			
Db	2	GTGGAAGATACCGGAAATTTGTGGCAACTGGATATTAGTA-TGCTCGGCTCAAGACAT	420			
QY	427	CTATGAATTTGTCAAGATGTGTATACAGGGATTAGGAACTGAGAGAAATTCCTACT	486			
Db	61	CTATGAAG-TTGTCAAGAAATGTGTATACAGGGATTAGGAACTGAGAGAAATTCCTACT	119			
QY	487	ACATCGTCCGAGAGAGAAGAACTACAGGGAATCCCTTACCCACTGCAGGATTCGGGGT	546			

```

yb 120 ACATCGTGCAGGAAGAGAACTACAGGAATCCCTAACCCACTGCAGGATTCGGGGTG 179
y 547 GAATGCTAGCCATGCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATGTTGCCA 606
yb 180 GAATGCTAGCCATGCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATGTTGCCA 239
y 607 AGAGTGGCTTTCTTCGGGTGTTCAATGGCGTGAATGACCTTGAAAGGAGGACAGTACA 666
yb 240 AGAGTGGCTTTCTTCGGGTGTTCAATGGCGTGAATGACCTTGAAAGGAGGACAGTACA 299
y 667 TGTTACAGACAACACTCCACTCAGAACTATAGCAACTGGAATGAGGGGAAACCCAGCG 726
b 300 TGTTACAGACAACACTCCACTCAGAACTATAGCAACTGGAATGAGGGGAAACCCAGCG 359
y 727 ACCCTATGCTATGAGGACTGTGTGGAGATGCTGAGCTCTGGAGATGGAATGACACAG 786
b 360 ACCCTATGCTATGAGGACTGTGTGGAGATGCTGAGCTCTGGAGATGGAATGACACAG 419
y 787 AGTGCCATCTTACCATGCTACTTGTCTGTGAGTTCAATCAAGAAAGAAAGTAACTTCCT 846
b 420 AGTGCCATCTTACCATGCTACTTGTCTGTGAGTTCAATCAAGAAAGAAAGTAACTTCCT 479
y 847 CATCTACGATTTGCTATTTCTGTGACCGTCACTACAGTTATGTTATCCATCCCTTT 906
yb 480 CATCTACGATTTGCTATTTCTGTGACCGTCACTACAGTTATGTTATCCATCCCTTT 539
y 907 TTTTCTCTGATGACTACATTTGATCTGAGTCAACATAGCTAGAAATGCTAAA 960
yb 540 TTTTCTCTGATGACTACATTTGATCTGAGTCAACATAGCTAGAAATGCTAAA 593

RESULT 8
LOCUS BX228545
DEFINITION AGENCOURT 11505973 NICHDRh_Ovi Macaca mulatta cDNA clone
IMAGE:6886251 5', mRNA sequence.
FEATURES
    CDS228545
    CDS228545..1 GI:28280123
    EST.
    Macaca mulatta (rhesus monkey)
    Macaca mulatta
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
    Cercopithecoidea; Macaca.
    1 (bases 1 to 747)
    NCBI-CCGAP http://www.ncbi.nlm.nih.gov/ncicgap.
    National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
    Tumor Gene Index
    Unpublished (1997)
    Contact: Robert Strausberg, Ph.D.
    Email: cgapsb@mail.nih.gov
    Tissue Procurement: Dr. Elliot Spindel
    cDNA Library Preparation: CLONTECH
    cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
    DNA Sequencing by: Agencourt Bioscience Corporation
    Clone distribution: NCI-CCGAP clone distribution information can be
    found through the I.M.A.G.E. Consortium/LLNL at:
    http://image.llnl.gov
    Plate: LLC93139 row: a column: 02
    High quality sequence stop: 526.
    Location/Qualifiers
        1..747
        /organism="Macaca mulatta"
        /mol_type="mRNA"
        /db_xref="taxon:9544"
        /clone="IMAGE:6886251"
        /tissue_type="Ovary"
        /lab_host="DH10B (phage-resistant)"
        /clone_lib="NICHDRh_Ovi"
        /note="Organ: ovary; Vector: pDNR-LIB; Site 1: Sfi I;
        Site 2: Sfi I; Cloned unidirectionally. Primer: Oligo dt.
        Average insert size 1.0-4.0 Kb. Tissue pooled from
        pre-pubertal, post pubertal sn menopausal monkeys."
FEATURES
    source

```

```

ORIGIN
Query Match 31.0%; Score 494.2; DB 14; Length 747;
Best Local Similarity 97.3%; Pred. No. 2,6e-123;
Matches 533; Conservative 0; Mismatches 13; Indels 1; Gaps 1;

QY 441 ACAAATGTCATAGCAGGGAATAGGGAATCTGAAGAGAAATCTACTACATCGTCAGGAA 500
Db 3 ACAAATGTCATAGCAGGGAATAGGGAATCTGAAGAGAAATCTACTACATCGTCAGGAA 62
QY 501 GAGAGAACTCAGAGGAATCCCTAACCCACTGCAGATTCGGGGTGGGAATCTAGCCATG 560
Db 63 GAGAGAACTCAGAGGAATCCCTAACCCACTGCAGATTCGGGGTGGGAATCTAGCCATG 122
QY 561 CCAAGGATGAAGCTGCCAACACACTCATCTGCTGACTATGTTGCCAAGAGTGGCTTTCTTT 620
Db 123 CCAAGGATGAAGCTGCCAACACACTCATCTGCTGACTATGTTGCCAAGAGTGGCTTTCTTT 182
QY 621 CGGGTGTTCATTTGGCGTGAATGACCTTGAAGGGAGGAGGACAGTACATGTTCCACAGAAC 680
Db 183 CGGGTGTTCATTTGGCGTGAATGACCTTGAAGGGAGGAGGACAGTACATGTTCCACAGAAC 242
QY 681 ACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAAACCCAGCGACCCCTATGGTCAT 740
Db 243 ACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAAACCCAGCGACCCCTATGGTCAT 302
QY 741 GAGGACTGTGGAGATGCTGAGCTCTGGCAGATGGAATGACAGAGTGCATCTTACC 800
Db 303 GAGGACTGTGGAGATGCTGAGCTCTGGCAGATGGAATGACAGAGTGCATCTTACC 362
QY 801 ATGACTTTGCTGTGAGTTCAATCAAGAAAGAAAGTAACTTCCTCATCTAGCTATTT 860
Db 363 ATGACTTTGCTGTGAGTTCAATCAAGAAAGAAAGTAACTTCCTCATCTAGCTATTT 422
QY 861 GCTATTTCTGTGACCGTCACTACAGTTATGTTATCCATCC-TTTTTTTCTGATGTT 919
Db 423 GCTATTTCTGTGACCGTCACTACAGTTATGTTATCCATCCCTTTTTCCTTAATAT 482
QY 920 ACTACATTTGATCTGAGTCAACATAGCTAGAAATGCTAAACTCAGG 966
Db 483 ACTACATTTGATCTGAGTCAACATAGCTAGAAATGCTAAACTCAGG 529

BX494095 560 bp mRNA linear EST 04-SEP-2003
DKFP779A1511.r1 779 (synonym: hnccl) Homo sapiens cDNA clone
DKFP779A1511 5', mRNA sequence.
ACCESSION BX494095
VERSION BX494095.1 GI:32007261
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 560)
Fobo, G., Han, M. and Wiemann, S.
Wambutt, R., Heubner, D., Mewes, H.W., Weil, B., Amid, C., Osanger, A.,
EST (Wambutt, R., Heubner, D., Mewes, H.W., Weil, B., Amid, C., et al.)
Unpublished (2003)
Contact: MIPS
MIPS
Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
sequenced by AGOWA (Berlin/Germany) within the cDNA sequencing
consortium of the German Genome Project..
No 1 sequence available.
This clone (DKFP779A1511) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

```

Constructed by Clontech. Note: this is a NICHDRh Library."


```

62 TCTTTTGCACAAATTCAGAGTCTGGTCTGGATATTGATAGCCCTCTACCGCTGAAGTCTG 121
65 TCTCTTGCACTTTACAGAGTCTGGTCTGGATCTGATCTGATAGTCAGTGCAGAGTCTG 124
122 TGGCACACACAAATTCACAGGACCCAAAGAGATGATGTTGTAAGAGAGATCCAGG 181
125 TGGCACACATACCAATTCACAGGACCTTAAGAGGATGATGTTGTAAGAGAGTGCACAGG 184
182 AGAAGAGGGAAGACATGGCAAGTGGGACGCTAGGCGCCGAAAGAAATTAAGAGAGACT 241
185 AGAAGAGGCAAGATGGCAAGTGGGACGCGCAGGACCAAGAGATGAAGAGAGCT 244
242 GGTGTATATGGAGATCGGGGCATATTTGGCAAGACTGGGCCATTTGGCAAGAGGTTGA 301
245 GGTGTATATGGAGACCCAGGTAATATTCGCAAGTCTGGCCCTATTTGGCAAGAGGTTGA 304
302 CAAAGGGGAAAAAGTTTCTTGGATACCTCGGAAAGCAAGCAAGCAGGTACTTGTCTG 361
305 CAAAGGGGAAAAAGTTTCTTGGATACCTCGGAAAGCAAGCAAGCAGGTACTTGTCTG 364
362 TGATTTGTGGAAGATACCGGAATTTCTTGGCAACTGGATATAGTATTTGCCCGGCTCAA 421
365 TGATTTGTGGAAGTACCGGAAGTTGTTGGCAACTGGATATAGTATTTGCCCGCTCAA 424
422 GACATCTATGAAGTTTGTCAAGATGTAGTACAGGATTTAGGGAACCTGAAGAGAAAT 481
425 GACATCATGAATTCATCAAGATTTTATAGCAGGATCCGGGAACCTGAAGAGAAAT 484
482 CTACTACATCGTCCAGGAAGAGAACTACAGGGAATCCCTTAACCCACTGCAGGATTCG 541
485 CTACTACATTTGCAGGAGGAGAACTACAGGGAATCTCTGACCCACTGCAGGATCCG 544
542 GGTGTGATCTAGCCATCCAGGATGAAGTCCACACACTCATCGCTGACTATGT 601
545 AGAGGATCTAGCCATCTAGAGATGAAGTTCAGACCCCTTATTTGCTGACTATGT 604
602 TGCCAAAGTGGTCTTTCTTGGTGTTCATTTGGTGTGATGACCTTGAAGAGGAGGACA 661
605 CGCC---AGAGTGTCTCAGAGTTTACATGGGTCTTACCTTTGAGAGGNGGGGCA 661

```

RESULT 11

```

X496500
LOCUS
DEFINITION
  DXFZp779M0527 r1 779 (synonym: hnccl) Homo sapiens cDNA clone
  DXFZp779M0527-5', mRNA sequence.

```

ACCESSION

```

X496500
VERSION
  X496500.1 GI:32012178

```

KEYWORDS

```

EST.

```

SOURCE

```

Homo sapiens (human)

```

ORGANISM

```

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

```

REFERENCE

```

1 (bases 1 to 457)

```

AUTHORS

```

Koehler, K., Beyer, A., Mewes, H.W., Weil, B., Amid, C., Osanger, A.,
Pobo, G., Han, M. and Wiemann, S.

```

TITLE

```

EST (Koehler, K., Beyer, A., Mewes, H.W., Weil, B., Amid, C., et al.)

```

JOURNAL

```

Unpublished (2003)

```

COMMENT

```

Contact: MIPS
MIPS
Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email: s.wiemann@dkfz-heidelberg.de;
Researched by BMFZ (Biomedical Research Center at the Heinrich-
Heine-University, Dueseldorf/Germany) within the cDNA sequencing
consortium of the German Genome Project. No s1 sequence available.
This clone (DXFZp779M0527) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
Location/Qualifiers
  1..457
    /organism="Homo sapiens"

```

FEATURES

```

source

```

```

/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="DXFZp779M0527"
/tissue_type="liver"
/dev_stage="fetal"
/lab_host="DH10B"
/clone_lib="779" (synonym: hnccl)
/note="Vector: pSport1_Sfi; Site_1: SfiI; Site_2: SfiIB"

```

ORIGIN

```

Query Match      27.1%; Score 432.8; DB 13; Length 457;
Best Local Similarity 99.5%; Fred. NO. 1.2e-106;
Matches 434; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 CAGCAATGAATGGCTTTGCATCCTTTGCTTCGAAAGAACCAATTTATCTCTCTGTACTAT 60
DB 22 CAGCAATGAATGGCTTTGCATCCTTTGCTTCGAAAGAACCAATTTATCTCTCTGTACTAT 81
QY 61 TTCTTTTGCAAATTCAGAGTCTGGTCTGGATATTGATAGCGTCTCTACCGCTGAAGTCT 120
DB 82 TTCTTTTGCAAATTCAGAGTCTGGTCTGGATATTGATAGCGTCTCTACCGCTGAAGTCT 141
QY 121 GTGCCACACACAAATTTTCCAGGACCCCAAGGAGATGATGGTCAAAAAGGAGATCCAG 180
DB 142 GTGCCACACACAAATTTTCCAGGACCCCAAGGAGATGATGGTCAAAAAGGAGATCCAG 201
QY 181 GAGAGAGGGAAGCATGGCAAGTGGGACCGCATGGGCCCGGAAAGGAATTAAGAGGAAC 240
DB 202 GAGAAAGGGAAGCATGGCAAGTGGGACCGCATGGGCCCGGAAAGGAATTAAGAGGAAC 261
QY 241 TGGGTGATATGGGAGATCGGGCAATATTGGCAAGACTTGGGCCCATTTGGGGAAGAGGGTG 300
DB 262 TGGGTGATATGGGAGATCAGGCAATATTGGCAAGACTTGGGCCCATTTGGGGAAGAGGGTG 321
QY 301 ACAAGGGGAAAAAGTTTGTCTTGAATACCTTGGAGAAAAAGGCAAGGATGCTGTCT 360
DB 322 ACAAGGGGAAAAAGTTTGTCTTGAATACCTTGGAGAAAAAGGCAAGGATGCTGTCT 381
QY 361 GTGATTGTGGAAGATACCGGAAATTTGTTGGACAACTGGATATTAGTATTCGCCGGTCA 420
DB 382 GTGATTGTGGAAGATACCGGAAATTTGTTGGACAACTGGATATTAGTATTCGCCGGTCA 441
QY 421 AGACATCTATGAAGTT 436
DB 442 AGACATCTATGAAGTT 457

```

RESULT 12

```

BF078010
LOCUS
DEFINITION
  228226 MARC 2P1G Sus scrofa cDNA 5', mRNA sequence.

```

ACCESSION

```

BF078010
VERSION
  BF078010.1 GI:10871840

```

KEYWORDS

```

EST.

```

SOURCE

```

Sus scrofa (pig)

```

ORGANISM

```

Sus scrofa
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.

```

REFERENCE

```

1 (bases 1 to 492)

```

AUTHORS

```

Fahrenkrug, S.C., Smith, T.P.L., Freking, B.A., Cho, J., White, J.,
Vallet, J., Wise, T., Rohrer, G.A., Pertea, G., Sultana, R.,
Quackenbush, J. and Keele, J.W.

```

TITLE

```

Porcine gene discovery by normalized cDNA-library sequencing and
EST cluster assembly

```

JOURNAL

```

Mamm. Genome 13 (8), 475-478 (2002)

```

MEDLINE

```

22213789

```

COMMENT

```

PUBMED
12226715

```

```

Contact: Smith TPL
USDA, ARS, US Meat Animal Research Center
PO Box 166, Clay Center, NE 68933-0166, USA
Tel: 402 762 4366
Fax: 402 762 4390
Email: smith@email.marc.usda.gov

```


Single pass sequencing. Bases called and alt trimmed with phred v0.980904.e. Vector identified by cross_match with the -minscore 18 and -minmatch 12 options.

PCR Primers

FORWARD: AGGAACAGCTATGACCAT

BACKWARD: GTTTCAGGTCAGCAG

Plate: 49 row: F column: 11

Seq primer: ATTAGGTGACATATAG.

Location/Qualifiers

1. 492

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/tissue_type="pooled"

/lab_host="DH10B"

/clone_lib="MARC 2P1G"

/note="Vector: pcwv SPORT6; Site 1: NotI; Site 2: SalI;

Library made from pooled tissue from testis, ovary,

endometrium, hypothalamus, pituitary, and placenta."

FEATURES

source

ORIGIN

Query Match 26.0%; Score 414.2; DB 10; Length 492;
Best Local Similarity 90.2%; Pred. No. 1.5e-101;
Matches 443; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 1 CAGCAATCAATGGCTTTCATCTTGTTCGAGAAACCAATTTATCTCTCTGCTACTAT 60
DB |||||
QY 2 CAGCAATGGTGGCTCTGGAGCTTGACCTCGAAGAACCAATTCATCTCTCTGCTTCT 61
DB |||||
QY 61 TTCCTTTTCAATTCAGAGTCCTGGGTCTGGATTTATGATACCGTCTTACCGCTGAAGTCT 120
DB |||||
QY 62 TTCCTTTTTCAGATTCAGAGTCCTGGGTCTGGATTCGACATCGACATCGTCTTACCGCTGAAGTCT 121
DB |||||
QY 121 GTGCCACACACACATTTTCCACGAGCCCAAGGAGATGATGGTGAAGAAAGGAGATCCAG 180
DB |||||
QY 122 GTGCCACACACACATTTTCCACGAGCCCAAGGAGATGATGGTGAAGAAAGGAGATCCAG 181
DB |||||
QY 181 GAGAAAGAGGAAAGCATCGCAAAAGTGGAGCGCATCGGCGCGCAAGAAATTAAGAGGAGAC 240
DB |||||
QY 182 GAGAGAGGAGGAAAGCATCGCAAAAGTGGAGCGCATCGGCGCGCAAGAAATTAAGAGGAGAC 241
QY 241 TGGGTGATATGGAGATCGGCGCAATATGCAAGATCGGCGCGCAATGGAAGAGGAGG 300
DB |||||
QY 242 TGGGTGATATGGAGATCGGCGCAATATGCAAGATCGGCGCGCAATGGAAGAGGAGG 301
QY 301 ACAAGAGGAGAAAGGTTTGTCTGGAATACCTGGAGAAAGGCAAGCAGGTAAGTCT 360
DB |||||
QY 302 ACAAGAGGAGAAAGGTTTGTCTGGAATACCTGGAGAAAGGCAAGCAGGTAAGTCT 361
QY 361 GTGATGTGGAGATACCGGAATTTGTGGACAACTGGATTTAGTATGTCGCGCTCA 420
DB |||||
QY 362 GTGATGTGGAGATACCGGAATTTGTGGACAACTGGATTTAGTATGTCGCGCTCA 421
QY 421 AGACATCTATGAAGTTTGTCAAGATGTGATAGCAGGATTTAGGAAATCTGAAGAGAAAT 480
DB |||||
QY 481 TCTACTATCATC 491
DB 482 TCTACTATCATC 492

RESULT 13

BX671934

LOCUS

DEFINITION

BX671934 Sus Scrofa library (scac) linear EST 24-OCT-2003

scac00321.c.03 5prim, mRNA sequence.

ACCESSION

BX671934

VERSION

BX671934.1

KEYWORDS

EST.

SOURCE

Sus scrofa (pig)

ORGANISM

Sus scrofa

Sukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.

1 (Bases 1 to 636)

Bonnet,A., Tosser-Klopp,G., Benne,F., Cabau,C., Villegier,S.,

Soares,M., Bonaldo,F. and Hatey,F.

A Pig Normalised Multi-Tissue cDNA Library

Unpublished (2003)

Contact: Tosser-Klopp G

Genetique Animale

Institut National de la Recherche Agronomique

Chemin de Borde-Rouge - Auzeville BP27, 31326 Castanet-Tolosan

cedex, FRANCE

Tel: 33 (0) 5.61.28.51.14

Fax: 33 (0) 5.61.28.53.08

Email: tosser@toulouse.inra.fr

Clone distribution: AGENAE Resource centre. Francois PIUMI,

Genome PIUMI@jouy.inra.fr, INRA, CBA Radiobiologie et Etude du

gerome (JREG), Domaine de Vilvert, 78352, Jouy-en-Josas cedex,

FRANCE, +33 (0) 1.34.65.28.02, +33 (0) 1.34.65.22.73

Sequence cleaned of vector, adaptor and repetitions. Contact us

at signenasupport@jouy.inra.fr to obtain the chromatogram of this

sequence.

Plate: 0032 row: C column: 3.

Location/Qualifiers

1. 636

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="scac00321.c.03"

/tissue_type="mixed"

/clone_lib="Sus Scrofa library (scac)"

/note="Vector: pT73B-pac vector; tissues: adipose tissue,

brain, kidney, liver, muscle, ovary, testis, heart,

hypothalamus, pancreas, skin, spleen, thymus, placenta,

pituitary gland, seminal vesicle, small intestine,

uterus, adrenals, bulbo urethral gland, cerebral trunk,

epididymis, female gonad, gall-bladder, hippocampus,

large intestine, male gonad, melanocytes, stomach, udder"

ORIGIN

Query Match 25.0%; Score 398.2; DB 13; Length 636;
Best Local Similarity 81.9%; Pred. No. 3.7e-97;
Matches 484; Conservative 0; Mismatches 103; Indels 4; Gaps 2;

QY 463 GGGAACTGAGAGAAATCTTACTATCTGTCAGAGAGAGAACTACAGGGAATCC 522
DB 1 GGGAAACCGAGAGAAATCTTACTATCTGTCAGAGAGAGAACTACAGGGAATCC 60
QY 523 TAACCCACTGCAGGATTCGGGGTGGAAATCTAGCCATGCCCAAGGATGAAGTGCACAA 582
DB 61 TGACCCACTGCCGATCCGGGGCGGGATGTAGCCATGCCAAAGGACGAAGCTGCACAA 120
QY 583 CACTCATCGCTGACTATGTTGCCAAGAGTGGCTTCTTTCGGGTGTTTCATTGGCGTGAATG 642
DB 121 CGCTCCTCGCTGACTAGTCTCCAGAGCGGGCTTCTCCGAGTGTTCATCGGGTAACG 180
QY 643 ACCTTTGAAAGAGGAGGAGCAGTACATGTTCCACAGCAACACTCCACTGCAGAACTATAGCA 702
DB 181 ACCTGGAGAGGAGGAGGCGCAGTACGTGTTCCACAGCAACACTCCACTGCAGAACTATAGCA 240
QY 703 ACTGGAATGAGGGGAGAACCCAGGAGCCCTTATGCTATGAGGACTGTGTGGAGATGCTCA 762
DB 241 ACTGGCAGGAGGGGTGAGCCCGAGGACCCCTACCGGTACAGGAGGACTGTGTGGAAATGCTGA 300
QY 763 GCTCTGGCAGATGGAATGACACAGAGTGCCATCTTACCATGTACTTTGTCTGTGAGTTCA 822
DB 301 GCTCGGCAGATGGAATGACACAGGAGTGCCACCTGACCATGTACTTTGTCTGTGAGTTTG 360
QY 823 TCAGAGAGAAAGTAATCTCCCTCATCTCCAGTATTTGCTATTTTCTTCTGAGCCGTCAT 882
DB 361 TCAGAGAGAAAGTAATCTCCCTCATCTCCAGTATTTGCTATTTTCTTCTGAGCAACCGT 420
QY 883 TACAGTTATTCTTATTCATCTCTTTTCTCTGATTTGCTATCTACATTTGATCTGAGTCAACA 942

```

1b 421 GGCAGTATTATTTAAATCCACTTTT---CTAATTACACTAAATTTGTTCTGACTCAAGG 477
1y 943 TAGCTAGAAATGCTAAACTAGAGTATGAGGCTCCATCATCATGCTCTTTTGTGATGAT 1002
1b 478 CAAGTGAACATGCTAGACTGGGCTTGAATCTCCACTGCCATGGTGTCTCGTAGCAT 537
1y 1003 TTTC-ATAATTTTACACATGGTATGTTATGACCCCAATTAATCTGCCAGGTT 1052
1b 538 TTTCAACATTTCATACATGGTGTGATATTGAGCCATAAGCTCACCAGGCT 588

RESULT 14
LOCUS   CF378429                930 bp     mRNA      linear      EST 27-AUG-2003
DEFINITION   AGENCOURT 15349559 NICHHD_XGC_SwblN Silurana tropicalis cDNA clone
IMAGE:7005528 5', mRNA sequence.
ACCESSION   CF378429
VERSION     CF378429.1 GI:34315873
KEYWORDS    EST.
SOURCE      Silurana tropicalis (western clawed frog)
ORGANISM    Silurana tropicalis
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipidea; Pipidae;
Xenopodinae; Silurana.
1 (bases 1 to 930)
NTH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgapbe@mail.nih.gov
Tissue Procurement: Rob Granger, University of Virginia
cDNA Library Preparation: Open Biosystems
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LHAM14704 row: j column: 22
High quality sequence stop: 677.
FEATURES             source
    1..930
        /organism="Silurana tropicalis"
        /mol_type="mRNA"
        /db_xref="taxon:8364"
        /clone="IMAGE:7005528"
        /tissue="whole body"
        /clone_lib="NICHHD_XGC_SwblN"
        /notes="Vector: pExpress-1; Site 1: EcoRV; Site 2: NotI;
Bulk tissue was collected from a whole 10 month old male
from the F6 strain. 1st strand cDNA was primed with a Not
I - oligo(dT) primer, double-stranded cDNA was cloned into
the Not I and EcoRV sites of pExpress-1. Library was
size-selected for >1.5 kb fragments for an average insert
size of 1.92 kb. Library was normalized to Cots with a
180-fold reduction of actin. A non-normalized version of
this library is also available (NICHHD_XGC_Swbl). Library
was constructed by Open Biosystems (Huntsville, AL)."
```

ORIGIN

```

Query Match      24.9%; Score 396.6; DB 14; Length 930;
Best Local Similarity 68.7%; Pred. No. 1.2e-96;
Matches 546; Conservative 0; Mismatches 249; Indels 0; Gaps 0;

2y 49  TCCCTGGTACTATTTCTTTTGGAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGCTCTA 108
1b 102 TCCTGGGGGTATAGCGCTACATGTGCGCTCTCTCTTTGGAGGTGGAGACAGTTCTG 161
2y 109 CCGCTGAAGTGTGGCCACACACACATTTTCACAGAGCCCAAGAGATGATGGTGA 168
1b 162 CTGTGGGATCTGTTTCCACTCACACCACTTCTGCCGGGACCCCAAGGGATGATGGAGAAG 221
```

```

169 AAGGAGATCCAGGAGAAGAGGGAAGCATGGCAAGTGGGCGCATGGGGCCGAAGGAA 228
222 CTGGAGATACGGGGGCTCTTGGGAAAGCTGGGAAAGATGGACCCCAAGGGGCGAAGGCA 281
229 TTAAGGAGAACTGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCATTG 288
282 ATAAGAGAAATAATAGGGGATTTCTGGCGACCTGGGCTGTATAGTTAAATTTGGCCCAATTG 341
289 GGAGAGAGGCTGACAAAGGGGAAAGGTTTCTTGGGAATACCTGGAGAAAAAGCAAG 348
342 GCAGCAAGGGGATAAAGGACATAAAGGCTTCCCGGCTTCCAGGAGGAAAAAGGAAAT 401
349 CAGGTACTCTCTGTGATTTGTGGAAGATACCGGAATTTTGGCAACTGTGATATTAGTA 408
402 CAGCGAGTTTACTGTGATTTGTGAAGGTACCGCAAGTTGTGGGCGAGCTGGACGTTAATG 461
409 TTGCCCGGCTCAAGACATCTATGAAGTTTGTCAAGATTTGTATAGCAGGGATTAGGGA 468
462 TTGGCGACCTAAAGTCTTCTTAAATTTGTAATAAATTTGATTGCCGGCATCAGGAAA 521
469 CTGAAGAGAAATTTCTACTACATCTGTCAGGAGAGAGAACTACAGGGAATCCCTAACCC 528
522 CAGATGAGAAGTACTATTATCATTTGTGAGAGAGAGCGGAATCTACAGGGATGCGTGA 581
529 ACTGCAGGATTCGGGTGGAATGCTAGTCATGCCCAAGCATGCAAGCTGCAACACACTCA 588
582 AGTGTGCGATAGAGGGGTACATTTGGCAATGCCCAAGGATCAAGCTACCAATTCCTCA 641
589 TCCTGACTATGTTGCCAAGAGTGGCTTTTTCGGGTGTTTCAATGGCGTGAATGACCTTG 648
642 TTGCTGATTACATCTCCAAATGGGGCTTTTTCAGAGTATTTATAGGAATAAATGACATTG 701
649 AAAGGAGGAGCAGTACATGTTTTCACAGACCAACACTCCACTGCAGAACTATAGCAACTGGA 708
702 AGAAAGAGAGAGATTTGTGTATGAGATACTCCCACTGCAGACTTACAGCAGCTGGA 761
709 ATGAGGGGAAACCCAGCGACCCCTATGTCATGAGAGATGTTGGAGATGCTGAGCTCTG 768
762 AAGCCGGAGAACCCACACAGTGGCTCTGGGTACGAAGACTGGGTGGAAATGCTCAGCACCG 821
769 GCAGATGGAATGACACAGAGTGCATCTTACCATCTTACCATCTTGTCTGTGAGTTTCATCA 828
822 GCCATTGGAGACGACGTGGACTGCAGTCTGACCATCTACTTTGTCTGTGAGTTTCTGAAA 881
829 AGAAAAGTAATTC 843
882 AGACAAAGTAGCTGC 896
```

RESULT 15

```

BI467460          499 bp     mRNA      linear      EST 22-AUG-2001
LOCUS           389071 MARC 2P1G Sus scrofa cDNA 5', mRNA sequence.
DEFINITION
ACCESSION   BI467460
VERSION     BI467460.1 GI:15280338
KEYWORDS    EST.
SOURCE      Sus scrofa (pig)
ORGANISM    Sus scrofa
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
1 (bases 1 to 499)
Fahrenkrug S.C., Smith, T.P.L., Freking, B.A., Cho, J., White, J.,
Vallet, J., Wise, T., Rohrer, G.A., Pertea, G., Sultana, R.,
Quackenbush, J., and Keele, J.W.
Porcine gene discovery by normalized cDNA-library sequencing and
EST cluster assembly
Mamm. Genome 13 (8), 475-478 (2002)
2213789
12226715
Contact: Smith TPL
USDA, ARS, US Meat Animal Research Center
PO Box 166, Clay Center, NE 68933-0166, USA
```

TITLE

JOURNAL

MEDLINE

PUBMED

COMMENT

Tel: 402 762 4366
Fax: 402 762 4390
Email: smith@mail.marc.usda.gov
Single pass sequencing. Bases called and alt trimmed with phred
v0.980904.e. Vector identified by cross_match with the -minscore 18
and -minmatch 12 options.
PCR Primers
FORWARD: AGGAACACAGCTATGACCAT
BACKWARD: GTTTTCCAGTCAAGAGG
Plate: 142 row: E column: 10
Seq primer: ATTAGGTGACACTATAG.
Location/Qualifiers
1. .499
/organism="Sus scrofa"
/mol_type="mRNA"
/db_xref="taxon:9823"
/tissue_type="pooled"
/lab_host="DH108"
/clone_lib="MARC 2P1G"
/note="Vector: pCMV SPOR6; Site 1: NotI; Site 2: SalI;
Library made from pooled tissue from testis, ovary,
endometrium, hypothalamus, pituitary, and placenta."

FEATURES
source

ORIGIN

Query Match 24.5%; Score 391; DB 12; Length 499;
Best Local Similarity 89.4%; Pred. No. 3.1e-95;
Matches 421; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

Qy 1 CAGCAATGAATGGCTTTGTCATCTTTCGAGGAAACCAATTTATCCTCTGCTACTAT 60
Db |||||||
Qy 29 CAGCAATGGTGGCTTTGGAGCTGGACCTCGAAGAACCAAGTTCATCTCTCGGGCTCT 88
Db |||||||
Qy 61 TTCTTTTGAATTCAGATCTGGTCTGGATATTGATAGCGCTCTACCGCTCAAGTCT 120
Db |||||||
Qy 89 TTCTTTTGCAGATTTCAGATCTGGTCTGGATCGACAGTCGTCTACCGCTCAAGTCT 148
Db |||||||
Qy 121 GTGCCACACACAAATTCACAGGACCCCAAGGAGATGATGGTCAAAAAGGAGATCCAG 180
Db |||||||
Qy 149 GTGCCACACACAAATTCACAGGACCCCAAGGAGATGATGGTCAAAAAGGAGATACAG 208
Db |||||||
Qy 181 GAGAAGAGGAAGCATGGCAAGTGGGACGATGGGCGGCAAGGAAATTAAGGAGAAC 240
Db |||||||
Qy 209 GAGAGAGGGAAGCATGGCAAGTGGGACGATGGGCGGCAAGGAAATTAAGGAGAAC 268
Db |||||||
Qy 241 TGGGTGATATGGGAGATCGGGCAATATTGGCAAGACTGGGCGGCAATGGGAGAGGGTG 300
Db |||||||
Qy 269 TGGGTGATATAGAGACCGGCAATATTGGCAAGACTGGGCGGCAATGGGAGAGGGTG 328
Db |||||||
Qy 301 ACAAGGGGAAAAAGGTTTGGTGAATACCTGGAGAAAAAGGCAAGCAGGTACTGTCT 360
Db |||||||
Qy 329 ACAAGGAGAAAAAGGGTTTCCCTGGGATGCCCTGGAGAAAAAGGCAAGCAGGTACTGTCT 388
Db |||||||
Qy 361 GTGATTGTGGAAGATACCGGAATTTGTTGGCAACTGGATATTAGTATTGCCCGGCTCA 420
Db |||||||
Qy 389 GTGACTGCGGAAGATACCGGAAGTTTGGCAACTGGATATTAGTATTAGTATTAGGAACTG 448
Db |||||||
Qy 421 AGACATCTATGAAGTTTGTCAAGATGTGATAGCAGGGAATTAGGAACTG 471
Db |||||||
Qy 449 AGACATCGATGAAGTTTGTCAAGATGTGATAGCAGGGAATTAGGAACTG 499
Db |||||||

Search completed: February 24, 2004, 00:35:27
Job time : 4313 secs

[illegible]

```

1 RESULT 2
2 US-08-392-367B-1
3 ; Sequence 1, Application US/08392367B
4 ; Patent No. 5691197
5 ; GENERAL INFORMATION:
6 ; APPLICANT: Tryggvason, Karl
7 ; APPLICANT: Elomaa, Outi
8 ; APPLICANT: Kangas, Maarit
9 ; TITLE OF INVENTION: An Insolated DNA Sequence For a
10 ; Patent No. 5691197
11 ; TITLE OF INVENTION: No. 5691197el Macrophage Receptor with
12 ; TITLE OF INVENTION: a Collagenous Domain and the
13 ; TITLE OF INVENTION: Polypeptide Chain Encoded by
14 ; TITLE OF INVENTION: such a Sequence
15 ; NUMBER OF SEQUENCES: 2
16 ; CORRESPONDENCE ADDRESS:
17 ; ADDRESSER: Fay, Sharpe, Beall, Fagan,
18 ; ADDRESSER: Minnich & McKee
19 ; STREET: 1100 Superior Avenue
20 ; STREET: Suite 700
21 ; CITY: Cleveland
22 ; STATE: Ohio
23 ; COUNTRY: U.S.A.
24 ; ZIP: 44114-2518
25 ; COMPUTER READABLE FORM:
26 ; MEDIUM TYPE: Diskette, 3.50 inch,
27 ; MEDIUM TYPE: 720 KB storable
28 ; COMPUTER: IBM PS/2, Model 35 SX
29 ; OPERATING SYSTEM: DOS 5.0
30 ; SOFTWARE: Word Perfect 5.1
31 ; CURRENT APPLICATION DATA:
32 ; APPLICATION NUMBER: US/08/392,367B
33 ; FILING DATE:
34 ; CLASSIFICATION: 435
35 ; ATTORNEY/AGENT INFORMATION:
36 ; NAME: Minnich, Richard J.
37 ; REGISTRATION NUMBER: 24,175
38 ; REFERENCE/DOCKET NUMBER: TRV 2 009
39 ; TELECOMMUNICATION INFORMATION:
40 ; TELEPHONE: (216) 861-5582
41 ; TELEFAX: (216) 241-1666

```

```

;       TELEX:      (216) 980162
;
; INFORMATION FOR SEQ ID NO: 1:
;-----
; SEQUENCE CHARACTERISTICS:
;     LENGTH: 1868 base pairs
;     TYPE: Nucleic acid
;     STRANDEDNESS: Single
;     TOPOLOGY: Linear
;
; MOLECULE TYPE: Nucleotide-genomic DNA
;
; HYPOTHETICAL: No. 5691197 relevant
; ANTI-SENSE: No. 5691197 relevant
;
; US-08-392-367B-1
;
; Query Match 4.3% Score 68.6; DB 1; Length 1868;
; Best Local Similarity 56.4%; Pred. No. 4.9e-11; Gaps 0;
; Matches 128; Conservative 0; Mismatches 99; Indels 0; Gaps 0;
;
; QY 128 ACACACAAATTTCACAGAGCCCAAGAGAGATGATCGTGAAAGAGAGATCCAGAGAGA 187
; Db 780 ACTTACGGGTGCACCAAGGGAAGCAAGAGCAACTGGTGCTCCAGGACCTCGAGGAGAA 839
;
; QY 198 GGGAAAGCATGCCAAGTGGGACGCATGGGCCGGAAGGAATTAAAGGAGNACTGGGTGA 247
; Db 840 GGGCAGCAAAAGGTGACATAGGTCTCACTGGCCCCAAGGGGGAAACATGGCACCAAGGGAGA 899
;
; QY 248 TATGGAGATCGGGGCAATAATTGGCAAGACTGGGGCCCATTTGGGAAGAGAGGTGACAAAGG 307
; Db 900 CAAGGGGACCTAGGCTTCCAGGAACAAAGGGGACATGGGCATGAAGGGAGACACGG 959
;
; QY 308 GGAAAAAGGTTTGTTGGAAATACCTCGAGAAAAGAGCAAGCAGTA 354
; Db 960 GCCCATGGGTGCCCTTGGAGCTCAGGAGGTAAAGGTGATGCTGAA 1006

```

RESULT 3
US-08-893-467A-1
; Sequence 1, Application US/08893467A
; Patent No. 6063901
; GENERAL INFORMATION:
; APPLICANT: Tyssevason, Karl
; APPLICANT: Elomaa, Outi
; APPLICANT: Kangas, Maarit
; TITLE OF INVENTION: An Insolated DNA Sequence For a
; Patent No. 6063901
; TITLE OF INVENTION: No. 6063901el Macrophage Receptor with
; TITLE OF INVENTION: a Collagenous Domain and the
; TITLE OF INVENTION: Polypeptide Chain Encoded by
; TITLE OF INVENTION: such a Sequence
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSSE: Fav, Sharpe, Beall, Fagan,
; ADDRESSSE: Minnich & McKee
; STREET: 1100 Superior Avenue
; STREET: Suite 700
; CITY: Cleveland
; STATE: Ohio
; COUNTRY: U.S.A.
; ZIP: 44114-2518
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch,
; MEDIUM TYPE: 720 Kb storable
; COMPUTER: IBM PS/2, Model 35 SX
; OPERATING SYSTEM: DOS 5.0
; SOFTWARE: word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/893,467A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Minnich, Richard J.
; REGISTRATION NUMBER: 24,175
; REFERENCE/DOCKET NUMBER: TRV 2 009
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (216) 861-5582

TELEFAX: (216) 241-1666
TELEX: (216) 980162
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1868 base pairs
TYPE: Nucleic acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: Nucleotide-genomic DNA
HYPOTHETICAL: No. 6063901 relevant
ANTI-SENSE: No. 6063901 relevant
US-08-893-467A-1

Query Match 4.3%; Score 68.6; DB 3; Length 1868;
Best Local Similarity 56.4%; Pred. No. 4.9e-11;
Matches 128; Conservative 0; Mismatches 99; Indels 0; Gaps 0;

2Y 128 ACACACAAATTCACACAGACCCCAAGAGAGATGATGTTGAAAGAGAGATCCAGGAGAGA 187
Db |||||
2Y 780 ACTTACGGGTGCACCGAGGAAGCAAGAGCAACTGGTCTCCAGGACCTCGAGGAGAGAA 839
Db |||||
2Y 188 GGGAAAGCATGGCAAGTGGGACCATGGGGCCGAAAGGAATTAAGAGAGAACTGGGTGA 247
Db |||||
2Y 840 GGGCAGCAAGGTGACATAGTCTCTCACTGSCCCCAAGGGGGAACATGGCACCAAGGGAGA 899
Db |||||
2Y 248 TATGGGAGATCGGGGCAATATTGCAAGACTGGGCCCATTTGGGAAGAGGTGACAAAGG 307
Db |||||
2Y 900 CAAAGGGGACCTAGGCGCTTCCAGGAAACAAAGGGGACATGGGCATGAAGGGAGACACGGG 959
Db |||||
2Y 308 GGAAGAGTTTGTCTGGAATACCTGGAGAAAAGCAAGACAGGTA 354
Db |||||
2Y 960 GCCATGGGTCCCTGAGCTCAGGAGGTAAGGTGATGCTGGAA 1006
Db |||||

RESULT 4
US-09-535-521-24
; Sequence 24, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 369
; TYPE: DNA
; ORGANISM: Canis familiaris
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(369)
US-09-535-521-24

Query Match 4.0%; Score 64; DB 4; Length 369;
Best Local Similarity 55.1%; Pred. No. 4.6e-10;
Matches 174; Conservative 0; Mismatches 130; Indels 12; Gaps 2;

2Y 476 GAAATTTCTACTACATCGTGCAGGAGAGAACTACAGGGAATCCCTAACCCACTGCGAG 535
Db |||||
2Y 45 GAAGTGCTACTACTTCGGGAGAGGCCAAGAGTGCATCCAGGCCCGGTTTGCCTGCAG 104
Db |||||
2Y 536 GATTCGGGTGGAATGCTAGCCATGCCAAGGATGAAGCTGCCAACACACTATCGCTGA 595
Db |||||
2Y 105 CAAGCTCAAGGGCGGTGGCCAGCATCCACAGCAGAGACAGGACTTCCTGCGCCAG 164
Db |||||
2Y 596 CTATGTTCCCAAGAGTGGCTTCTTCGGGTGTTTCATTTGGCGTGAATGACCTTGAAGGGA 655
Db |||||

Db 165 GTATGCCAACAGAAGGGCACC-----TGGATTGGCTCCGGGACCTGGACAGAGA 215
QY 656 GGGACAGTACATGTTTCACAGACAACTCCACTGACAGAACTATAGCAACTGGAATGAGGG 715
Db |||||
2Y 216 GGGGGAGTTTATCTGGATGGACGAGAACCCCT---GAACTATAGCAACTGCGGCCCGG 272
Db |||||
QY 716 GGAACCCAGCGACCCCTATGTTGATGAGACTGTGTGGAGATGCTGAGCTCTGGCAGATG 775
Db |||||
2Y 273 GGAGCCCAACACGGGGCCAGGCGGCGAGGACTGCGTGATGATGCGAGGCTCGGGGCAGTG 332
Db |||||
QY 776 GAATGACACAGAGTGC 791
Db |||||
2Y 333 GAATGACGCTTCTGC 348
Db |||||

RESULT 5
US-09-535-521-26/c
; Sequence 26, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 369
; TYPE: DNA
; ORGANISM: Canis familiaris
US-09-535-521-26

Query Match 4.0%; Score 64; DB 4; Length 369;
Best Local Similarity 55.1%; Pred. No. 4.6e-10;
Matches 174; Conservative 0; Mismatches 130; Indels 12; Gaps 2;

QY 476 GAAATTTCTACTACATCGTGCAGGAGAGAACTACAGGGAATCCCTAACCCACTGCGAG 535
Db |||||
2Y 325 GAAGTGCTACTACTTCGGGAGAGGCCAAGAGTGCATCCAGGCCCGGTTTGCCTGCAG 266
Db |||||
QY 536 GATTCGGGTGGAATGCTAGCCATGCCAAGGATGAAGCTGCCAACACACTATCGCTGA 595
Db |||||
2Y 265 CAAGCTCAAGGGCGGTGGCCAGCATCCACAGCAGAGGAGGAGGACTTCCTGCGCCAG 206
Db |||||
QY 596 CTATGTTCCCAAGAGTGGCTTCTTCGGGTGTTTCATTTGGCGTGAATGACCTTGAAGGGA 655
Db |||||
2Y 205 GTATGCCAACAGAAGGGCACC-----TGGATTGGCTCCGGGACCTGGACAGAGA 155
QY 656 GGGACAGTACATGTTTCACAGACAACTCCACTGACAGAACTATAGCAACTGGAATGAGGG 715
Db |||||
2Y 154 GGGGGAGTTTATCTGGATGGACGAGAACCCCT---GAACTATAGCAACTGCGGCCCGG 98
Db |||||
QY 716 GGAACCCAGCGACCCCTATGTTGATGAGACTGTGTGGAGATGCTGAGCTCTGGCAGATG 775
Db |||||
2Y 97 GGAGCCCAACACGGGGCCAGGCGGCGAGGACTGCGTGATGATGCGAGGCTCGGGGCAGTG 38
Db |||||
QY 776 GAATGACACAGAGTGC 791
Db |||||
2Y 37 GAATGACGCTTCTGC 22
Db |||||

RESULT 6
US-09-535-521-7
; Sequence 7, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.

;; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23);
;; FILE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
;; FILE REFERENCE: AL-5
;; CURRENT APPLICATION NUMBER: US/09/535,521
;; CURRENT FILING DATE: 2000-03-24
;; EARLIER APPLICATION NUMBER: 60/125,913
;; EARLIER FILING DATE: 1999-03-24
;; NUMBER OF SEQ ID NOS: 26
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 7
;; LENGTH: 384
;; TYPE: DNA
;; ORGANISM: Canis familiaris
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (1)..(384)
US-09-535-521-7

Query Match 4.0%; Score 64; DB 4; Length 384;
Best Local Similarity 55.1%; Pred.No. 4.7e-10;
Matches 174; Conservative 0; Mismatches 130; Indels 12; Gaps 2;

QY 476 GAAATTTCTACTACATCGTCAGGAAGAGAACTACAGGAAATCCCTAACCCACTGCAG 535
DB 36 GAAGTGTCTACTTTCGGCGAGAGCCCAAGAAAGTGGATCCAGGCCCGGTTTGCCTGCAG 95

QY 536 GATTCCGGGTGGAATCTAGCCATGCCCAAGGATGAAGTCCCAACACACTCATCGCTGA 595
DB 96 CAAGCTGCAAGGGCGCTGGCCAGATCCACAGCCAGAGAGCAGGACTTCCTGGCCAG 155

QY 596 CTATGTTGCCAAGAGTGGCTTTCTTTCGGGTGTTCTATTCGGCTGAATGACCTTGAAGGGA 655
DB 156 GTATGCCAACAAAGAGGCCACC-----TGGATTGGCTCCGGGACCTGGACAGAGA 206

QY 656 GGGACAGTACATGTTACAGACACACTCCACTGCAGACTATAGCACTATAGCACTGGAATGAGG 715
DB 207 GGGGAGTTTATCTGGATGGAAGAACCCCT---GAACATAGCAACTGGCGGCCCGG 263

QY 716 GGAACCCAGCGACCCCTATGGTTCATGAGGACTGTGTGGAGATGCTTGAGCTTGGCAGATG 775
DB 264 GGAGCCCAACAACGGGGCCAGGCGAGGACTGCGTGATGATGAGGCGCTCGGGGCAGTG 323

QY 776 GAATGACACAGATGC 791
DB 324 GAATGACGCTTCTGC 339

RESULT 7
US-09-535-521-9/c
;; Sequence 9, Application US/09535521
;; Patent No. 6410714
;; GENERAL INFORMATION:
;; APPLICANT: Weber, Eric R.
;; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
;; FILE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
;; FILE REFERENCE: AL-5
;; CURRENT APPLICATION NUMBER: US/09/535,521
;; CURRENT FILING DATE: 2000-03-24
;; EARLIER APPLICATION NUMBER: 60/125,913
;; EARLIER FILING DATE: 1999-03-24
;; NUMBER OF SEQ ID NOS: 26
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 9
;; LENGTH: 384
;; TYPE: DNA
;; ORGANISM: Canis familiaris
US-09-535-521-9

Query Match 4.0%; Score 64; DB 4; Length 384;
Best Local Similarity 55.1%; Pred.No. 4.7e-10;
Matches 174; Conservative 0; Mismatches 130; Indels 12; Gaps 2;

QY 476 GAAATTTCTACTACATCGTCAGGAAGAGAACTACAGGAAATCCCTAACCCACTGCAG 535
DB 349 GAAGTGTCTACTTTCGGCGAGGAGCCCAAGAAAGTGGATCCAGGCCCGGTTTGCCTGCAG 290

QY 536 GATTCCGGGTGGAATCTAGCCATGCCCAAGGATGAAGTCCCAACACACTCATCGCTGA 595
DB 289 CAAGCTGCAAGGGCGCTGGCCAGATCCACAGCCAGAGAGCAGGACTTCCTGGCCAG 230

QY 596 CTATGTTGCCAAGAGTGGCTTTCTTTCGGGTGTTCTATTCGGCTGAATGACCTTGAAGGGA 655
DB 229 GTATGCCAACAAAGAGGCCACC-----TGGATTGGCTCCGGGACCTGGACAGAGA 179

QY 656 GGGACAGTACATGTTACAGACACACTCCACTGCAGAACTATAGCACTATAGCACTGGAATGAGG 715
DB 178 GGGGAGTTTATCTGGATGGAAGAACCCCT---GAACATAGCAACTGGCGGCCCGG 122

QY 716 GGAACCCAGCGACCCCTATGGTTCATGAGGACTGTGTGGAGATGCTTGAGCTTGGCAGATG 775
DB 121 GGAGCCCAACAACGGGGCCAGGCGAGGACTGCGTGATGATGAGGCGCTCGGGGCAGTG 62

QY 776 GAATGACACAGATGC 791
DB 61 GAATGACGCTTCTGC 46

RESULT 8
US-09-535-521-10
;; Sequence 10, Application US/09535521
;; Patent No. 6410714
;; GENERAL INFORMATION:
;; APPLICANT: Weber, Eric R.
;; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
;; FILE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
;; FILE REFERENCE: AL-5
;; CURRENT APPLICATION NUMBER: US/09/535,521
;; CURRENT FILING DATE: 2000-03-24
;; EARLIER APPLICATION NUMBER: 60/125,913
;; EARLIER FILING DATE: 1999-03-24
;; NUMBER OF SEQ ID NOS: 26
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 10
;; LENGTH: 417
;; TYPE: DNA
;; ORGANISM: Canis familiaris
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (1)..(417)
US-09-535-521-10

Query Match 4.0%; Score 64; DB 4; Length 417;
Best Local Similarity 55.1%; Pred.No. 5e-10;
Matches 174; Conservative 0; Mismatches 130; Indels 12; Gaps 2;

QY 476 GAAATTTCTACTACATCGTCAGGAAGAGAACTACAGGAAATCCCTAACCCACTGCAG 535
DB 69 GAAGTGTCTACTTTCGGCGAGGAGCCCAAGAAAGTGGATCCAGGCCCGGTTTGCCTGCAG 128

QY 536 GATTCCGGGTGGAATCTAGCCATGCCCAAGGATGAAGTCCCAACACACTCATCGCTGA 595
DB 129 CAAGCTGCAAGGGCGCTGGCCAGATCCACAGCCAGAGAGCAGGACTTCCTGGCCAG 188

QY 596 CTATGTTGCCAAGAGTGGCTTTCTTTCGGGTGTTCTATTCGGCTGAATGACCTTGAAGGGA 655
DB 189 GTATGCCAACAAAGAGGCCACC-----TGGATTGGCTCCGGGACCTGGACAGAGA 239

QY 656 GGGACAGTACATGTTACAGACACACTCCACTGCAGAACTATAGCACTATAGCACTGGAATGAGG 715
DB 240 GGGGAGTTTATCTGGATGGAAGAACCCCT---GAACATAGCAACTGGCGGCCCGG 296

QY 716 GGAACCCAGCGACCCCTATGGTTCATGAGGACTGTGTGGAGATGCTTGAGCTTGGCAGATG 775
DB 297 GGAGCCCAACAACGGGGCCAGGCGAGGACTGCGTGATGATGAGGCGCTCGGGGCAGTG 356

Qy 776 GAATGACACAGAGTGC 791
|||
Db 357 GAATGACGCCCTTCTGC 372

RESULT 9

US-09-535-521-12/c
; Sequence 12, Application US/09535521

Patent No. 6410714
GENERAL INFORMATION:

APPLICANT: Weber, Eric R.
APPLICANT: McCall, Catherine A.

Db	229	GTATGCCAACAGAGGGCACCC-----TGGATTGGCCTCCGGGACTGGACAGAGA	179
QY	656	GGGACAGTACATGTTTCACAGACAACACTCCACACTGCAGACTATAGCAACTGGAATGAGGG	715
Db	178	GGGGGAGTTTATCTGGATGGACGAAACCCCT---GAACTATAGCAACTGGCGGCCCGG	122
QY	716	GGAAACCCAGGACCCCTATGTGCATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATG	775
Db	121	GGAGCCCAACACAGGGGGCCAGGGCAGGACTGCGTGATGATGACGGGCTCGGGGCAGTG	62
QY	776	GAATGACACAGAGTGC	791
b	61	GAATGACGCTTCTGC	46

```

RESULT 12
US-09-535-521-16
/ Sequence 16, Application US/09535521
/ Patent No. 6410714
/ GENERAL INFORMATION:
/ APPLICANT: Weber, Eric R.
/ APPLICANT: McCall, Catherine A.
/ TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
/ TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
/ FILE REFERENCE: AL-5
/ CURRENT APPLICATION NUMBER: US/09/535,521
/ CURRENT FILING DATE: 2000-03-24
/ EARLIER APPLICATION NUMBER: 60/125,913
/ EARLIER FILING DATE: 1999-03-24
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO 16
/ LENGTH: 561
/ TYPE: DNA
/ ORGANISM: Canis familiaris
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1)..(561)
US-09-535-521-16

```

RESULT 13
US-09-535-521-18/c
; Sequence 18, Application US/09535521

```
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 561
; TYPE: DNA
; ORGANISM: Canis familiaris
US-09-535-521-18

Query Match      4.0%; Score 64; DB 4; Length 561;
Best Local Similarity 55.1%; Pred.No. 6.1e-10;
Matches 174; Conservative 0; Mismatches 130; Indels 12; Gaps 2;

QY   476  GAAATTCTACTACATCTGTCAGAGAAGAGAACTACAGGGNAATCCCTAACCCCCTGCAG 535
DB   349  GAAGTGTCTACTTCTCGGAGGAGGCCAAGAGTGGAATCCAGGCCCGGTTTGGCTGCAG 290
QY   536  GATTCGGGGTGGAAATGTACCCATGCCCAAGGATGAAGCTGCCAACACACACTCATGCTGA 595
DB   289  CAAAGTGTCAAAGGGCGCTGCCAGCATCCACAGCCAAAGAGGAGCAGGACTTCTTGGCCAG 230
QY   596  CTATGTTGCCAAGAGTGGCTTCTTTCGGGTGTTTCATTTGGCGTGAATGATGACCTTGAAGGGA 655
DB   229  GTATGCCCAACAAGAAGGGCAC-----TGGATTGGCTTCGGGACCTTGGACAGAGA 179
QY   656  GGGCAGGTACATGTTTCACAGACAACACTCCACTGCAGAACTATAGCAACTTGAATGAGGG 715
DB   178  GGGGAGTATTATCTGATGACGAGAAACCCCT---GAATATAGCAACTGGCGCCCGG 122
QY   716  GGAAACCCAGCACCCCCCTATGGTCATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATG 775
DB   121  CGAGCCCAACAACAGGGGGGCCAGGGCGAGGACTGCGTGAATGATGCAGGGCTCGGGGCAATG 62
QY   776  GAATGACACAGAGTGC 791
DB   61  GAATGACGCTTCTGC 46

RESULT 14
US-09-535-521-19
; Sequence 19, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY IGE RECEPTOR (CANINE CD23)
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 624
; TYPE: DNA
; ORGANISM: Canis familiaris
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(624)
US-09-535-521-19
```

Query Match 4.0%; Score 64; DB 4; Length 624;
Best Local Similarity 55.1%; Pred. No. 6.5e-10;
Matches 174; Conservative 0; Mismatches 130; Indels 12; Gaps 2;
QY 476 GAAATTCCTACTACATCGTCGAGGAGAGAACTACAGGGAATCCCTAACCCACTGCAG 535
DB 276 GAAATTCCTACTACTTCGGCGAGGAGCCCAAGAGTGGATCCAGGCCCGGTTTGCCTGCAG 335
QY 536 GATTCGGGGTGGATGCTAGCATGCTCCAGGATGAAGTGCACACACACTCATCGCTGA 595
DB 336 CAAGCTGCAAGGGCGGCTGGCCAGCATCCACAGCAAGAGAGAGGACTTCTGGCCAG 395
QY 596 CTATGTTCCCAAGAGTGGCTTTCTTCGGGTGTTTCATTGGCGTGAATGACCTTGAAGGGA 655
DB 396 GTATGCCAACCAAGAGGGCACCC-----TGATTGGCCTCCGGACCTGGACAGAGA 446
QY 656 GGGACAGTACATGTTTCAGACACACACTCCACCTGCAGAACTATAGCAACTGGGAATGAGGG 715
DB 447 GGGGAGTTTATCTGGATGGACGAGAACCCCT---GAACTATAGCAACTGGCGGCCCGG 503
QY 716 GGAACCCAGCGACCCCTATGCTATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATG 775
DB 504 GGAGCCCAACAACAGGGGCCAGGGCGAGGACTGGGTGATGATGACAGGGCTCGGGGCAGTG 563
QY 776 GAATGACACAGAGTGC 791
DB 564 GAATGACGCTTCTGC 579

RESULT 15
US-09-535-521-21/c
; Sequence 21, Application US/09535521
; Patent No. 6410714
; GENERAL INFORMATION:
; APPLICANT: Weber, Eric R.
; APPLICANT: McCall, Catherine A.
; TITLE OF INVENTION: NOVEL CANINE LOW AFFINITY ICE RECEPTOR (CANINE CD23)
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES AND USES THEREOF
; FILE REFERENCE: AL-5
; CURRENT APPLICATION NUMBER: US/09/535,521
; CURRENT FILING DATE: 2000-03-24
; EARLIER APPLICATION NUMBER: 60/125,913
; EARLIER FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 624
; TYPE: DNA
; ORGANISM: Canis familiaris
US-09-535-521-21

Query Match 4.0%; Score 64; DB 4; Length 624;
Best Local Similarity 55.1%; Pred. No. 6.5e-10;
Matches 174; Conservative 0; Mismatches 130; Indels 12; Gaps 2;
QY 476 GAAATTCCTACTACATCGTCGAGGAGAGAACTACAGGGAATCCCTAACCCACTGCAG 535
DB 349 GAAATTCCTACTACTTCGGCGAGGAGCCCAAGAGTGGATCCAGGCCCGGTTTGCCTGCAG 290
QY 536 GATTCGGGGTGGATGCTAGCATGCTCCAGGATGAAGTGCACACACTCATCGCTGA 595
DB 289 CAAGCTGCAAGGGCGGCTGGCCAGCATCCACAGCAAGAGAGAGGACTTCTGGCCAG 230
QY 596 CTATGTTCCCAAGAGTGGCTTTCTTCGGGTGTTTCATTGGCGTGAATGACCTTGAAGGGA 655
DB 229 GTATGCCAACCAAGAGGGCACCC-----TGATTGGCCTCCGGACCTGGACAGAGA 179
QY 656 GGGACAGTACATGTTTCAGACACACTCCACTGCAGAACTATAGCAACTGGGAATGAGGG 715
DB 178 GGGGAGTTTATCTGGATGGACGAGAACCCCT---GAACTATAGCAACTGGCGGCCCGG 122
QY 716 GGAACCCAGCGACCCCTATGCTATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATG 775

Db 121 GGAGCCCAACACACGGGGGCCAGGGCCGAGGACTGCGTGATGATGACAGGGCTCGGGGCAGTG 62
QY 776 GAATGACACAGAGTGC 791
DB 61 GAATGACGCTTCTGC 46
Search completed: February 24, 2004, 02:09:38
Job time : 126 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 23, 2004, 23:23:31 ; Search time 563 Seconds

(without alignments)
9920.289 Million cell updates/sec

Title: US-09-600-932-1

Perfect score: 1595

Sequence: 1 cagcaatgaatggtttgca.....gatttaagaaaaacggagcc 1595

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2308684 seqs, 1750822206 residues

Total number of hits satisfying chosen parameters: 4617368

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
- 17: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
- 18: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	980.2	61.5	1016	9	US-09-978-295A-96
2	980.2	61.5	1016	9	US-09-978-697-96
3	980.2	61.5	1016	9	US-09-978-132A-96
4	980.2	61.5	1016	9	US-09-993-832A-96
5	980.2	61.5	1016	10	US-09-978-189-96
6	980.2	61.5	1016	10	US-09-978-608A-96
7	980.2	61.5	1016	10	US-09-978-585A-96
8	980.2	61.5	1016	10	US-09-978-191A-96
9	980.2	61.5	1016	10	US-09-978-403A-96
10	980.2	61.5	1016	10	US-09-978-564A-96
11	980.2	61.5	1016	10	US-09-993-833A-96
12	980.2	61.5	1016	10	US-09-981-915A-96
13	980.2	61.5	1016	10	US-09-978-824-96
14	980.2	61.5	1016	10	US-09-918-585A-96
15	980.2	61.5	1016	10	US-09-978-423A-96

16	980.2	61.5	1016	10	US-09-978-193A-96
17	980.2	61.5	1016	10	US-09-999-830A-96
18	980.2	61.5	1016	10	US-09-978-757A-96
19	980.2	61.5	1016	10	US-09-978-187B-96
20	980.2	61.5	1016	10	US-09-978-643A-96
21	980.2	61.5	1016	10	US-09-978-375A-96
22	980.2	61.5	1016	10	US-09-978-298A-96
23	980.2	61.5	1016	10	US-09-978-188A-96
24	980.2	61.5	1016	10	US-09-978-681A-96
25	980.2	61.5	1016	10	US-09-978-194A-96
26	980.2	61.5	1016	10	US-09-999-823A-96
27	980.2	61.5	1016	10	US-09-978-299A-96
28	980.2	61.5	1016	10	US-09-978-544A-96
29	980.2	61.5	1016	10	US-09-978-665A-96
30	980.2	61.5	1016	10	US-09-978-802A-96
31	980.2	61.5	1016	12	US-10-164-749A-96
32	980.2	61.5	1016	12	US-10-206-915-99
33	980.2	61.5	1016	13	US-10-052-585-99
34	980.2	61.5	1016	14	US-10-174-590-99
35	980.2	61.5	1016	14	US-10-176-758-99
36	980.2	61.5	1016	14	US-10-175-737-99
37	980.2	61.5	1016	14	US-10-173-706-99
38	980.2	61.5	1016	14	US-10-175-738-99
39	980.2	61.5	1016	14	US-10-175-752-99
40	980.2	61.5	1016	14	US-10-176-482-99
41	980.2	61.5	1016	14	US-10-176-757-99
42	980.2	61.5	1016	14	US-10-176-913-99
43	980.2	61.5	1016	14	US-10-180-552-99
44	980.2	61.5	1016	14	US-10-180-557-99
45	980.2	61.5	1016	14	US-10-173-700-99

ALIGNMENTS

RESULT 1

US-09-978-235A-96
; Sequence 96, Application US/09978295A
; Patent No. US20020156006A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630Fic11
; CURRENT APPLICATION NUMBER: US/09/978,295A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585

PRIOR FILING DATE:	2001-07-30
PRIOR APPLICATION NUMBER:	60/062250
PRIOR FILING DATE:	1997-10-17
PRIOR APPLICATION NUMBER:	60/064249
PRIOR FILING DATE:	1997-11-03
PRIOR APPLICATION NUMBER:	60/065311
PRIOR FILING DATE:	1997-11-13
PRIOR APPLICATION NUMBER:	60/066364
PRIOR FILING DATE:	1997-11-21
PRIOR APPLICATION NUMBER:	60/077450
PRIOR FILING DATE:	1998-03-10
PRIOR APPLICATION NUMBER:	60/077632
PRIOR FILING DATE:	1998-03-11
PRIOR APPLICATION NUMBER:	60/077641
PRIOR FILING DATE:	1998-03-11
PRIOR APPLICATION NUMBER:	60/077649
PRIOR FILING DATE:	1998-03-11
PRIOR APPLICATION NUMBER:	60/077791
PRIOR FILING DATE:	1998-03-12
PRIOR APPLICATION NUMBER:	60/078004
PRIOR FILING DATE:	1998-03-13
PRIOR APPLICATION NUMBER:	60/078886
PRIOR FILING DATE:	1998-03-20
PRIOR APPLICATION NUMBER:	60/078936
PRIOR FILING DATE:	1998-03-20
PRIOR APPLICATION NUMBER:	60/078910
PRIOR FILING DATE:	1998-03-20
PRIOR APPLICATION NUMBER:	60/078939
PRIOR FILING DATE:	1998-03-20
PRIOR APPLICATION NUMBER:	60/079294
PRIOR FILING DATE:	1998-03-25
PRIOR APPLICATION NUMBER:	60/079656
PRIOR FILING DATE:	1998-03-26
PRIOR APPLICATION NUMBER:	60/079664
PRIOR FILING DATE:	1998-03-27
PRIOR APPLICATION NUMBER:	60/079689
PRIOR FILING DATE:	1998-03-27
PRIOR APPLICATION NUMBER:	60/079663
PRIOR FILING DATE:	1998-03-27
PRIOR APPLICATION NUMBER:	60/079728
PRIOR FILING DATE:	1998-03-27
PRIOR APPLICATION NUMBER:	60/079786
PRIOR FILING DATE:	1998-03-27
PRIOR APPLICATION NUMBER:	60/079920
PRIOR FILING DATE:	1998-03-30
PRIOR APPLICATION NUMBER:	60/079923
PRIOR FILING DATE:	1998-03-30
PRIOR APPLICATION NUMBER:	60/080105
PRIOR FILING DATE:	1998-03-31
PRIOR APPLICATION NUMBER:	60/080107
PRIOR FILING DATE:	1998-03-31
PRIOR APPLICATION NUMBER:	60/080165
PRIOR FILING DATE:	1998-03-31
PRIOR APPLICATION NUMBER:	60/080194
PRIOR FILING DATE:	1998-03-31
PRIOR APPLICATION NUMBER:	60/080327
PRIOR FILING DATE:	1998-04-01
PRIOR APPLICATION NUMBER:	60/080328
PRIOR FILING DATE:	1998-04-01
PRIOR APPLICATION NUMBER:	60/080333
PRIOR FILING DATE:	1998-04-01
PRIOR APPLICATION NUMBER:	60/080334
PRIOR FILING DATE:	1998-04-01
PRIOR APPLICATION NUMBER:	60/081070
PRIOR FILING DATE:	1998-04-08
PRIOR APPLICATION NUMBER:	60/081049
PRIOR FILING DATE:	1998-04-08
PRIOR APPLICATION NUMBER:	60/081071
PRIOR FILING DATE:	1998-04-08
PRIOR APPLICATION NUMBER:	60/081195
PRIOR FILING DATE:	1998-04-08
PRIOR APPLICATION NUMBER:	60/081203
PRIOR FILING DATE:	1998-04-09

; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085592
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 61.5%; Score 980.2; DB 9; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CAGCAATGATGGCTTTCATCCCTTGTCTCGAAGAAACCAATTTATCCTCCTGGTACTAT 60
DB 17 CAGCAATGATGGCTTTCATCCCTTGTCTCGAAGAAACCAATTTATCCTCCTGGTACTAT 76
QY 61 TTCCTTTTCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCCTACCGCTGAAGTCT 120
DB 77 TTCCTTTTCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCCTACCGCTGAAGTCT 136
QY 121 GTGCCACACACAAATTTACAGAGACCCCAAGAGATGATGGTGAAGAGAGATCCAG 180
DB 137 GTGCCACACACAAATTTACAGAGACCCCAAGAGATGATGGTGAAGAGAGATCCAG 196
QY 181 GAGAGAGGGAAGATGCGCAAGTGGGACGATGGGCGCCGAAAGAGAAATTAAGGAGAAC 240
DB 197 GAGAGAGGGAAGATGCGCAAGTGGGACGATGGGCGCCGAAAGAGAAATTAAGGAGAAC 256
QY 241 TGGGTGATATGGAGATCGGGCAATATTGGCAAGATCGGGCCCATTTGGGAAGAGGGTG 300
DB 257 TGGGTGATATGGAGATCAGGGCAATATTGGCAAGATCGGGCCCATTTGGGAAGAGGGTG 316
QY 301 ACAAGGGGAAAGAGTTTGTCTGGAATCTCTGGAAGAAAGGCAAGGAGGAGTCTCTCT 360
DB 317 ACAAGGGGAAAGAGTTTGTCTGGAATCTCTGGAAGAAAGGCAAGGAGGAGTCTCTCT 376
QY 361 GTGATTTGGAAGATACCGGAAATTTGTGGACAACTGGATATTAGTATTGCCCGCTCA 420
DB 377 GTGATTTGGAAGATACCGGAAATTTGTGGACAACTGGATATTAGTATTGCCCGCTCA 436
QY 421 AGACATCTATGAGTTTGTCAAGATGTGATAGCAGGGAATAGGGAACCTGAGAGAAAT 480
DB 437 AGACATCTATGAGTTTGTCAAGATGTGATAGCAGGGAATAGGGAACCTGAGAGAAAT 496
QY 481 TCTACTATCTGTCGAGGAAGAGAAAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC 540
DB 497 TCTACTATCTGTCGAGGAAGAGAAAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC 556
QY 541 GGGGTGGAATGTAGCCATGCCAAGATGAGCTGCCAACACACTATCGTCACTATG 600
DB 557 GGGGTGGAATGTAGCCATGCCAAGATGAGCTGCCAACACACTATCGTCACTATG 616
QY 601 TTGCCAAGAGTGGCTTCTTTCCGGGTGTTTCATTGGCGTGAATGACCTTGAAAGGAGGGAC 660
DB 617 TTGCCAAGAGTGGCTTCTTTCCGGGTGTTTCATTGGCGTGAATGACCTTGAAAGGAGGGAC 676
QY 661 AGTACATGTTTCAAGACAACTCCACTGCAGAACTATAGCACTGGAATGAGGGGAAAC 720
DB 677 AGTACATGTTTCAAGACAACTCCACTGCAGAACTATAGCACTGGAATGAGGGGAAAC 736
QY 721 CCAGGCACCCCTATGTCATGAGGAGCTGTGGAGATGCTGAGCTCTGGCAGATGGGAATG 780

DB 737 CCACGAGCCCTATGGTCTATGAGGAGCTGTCTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCCATCTTACCATGTACTTTCTGTGAGTTTCATCAAGAGAGAAAGTAAAC 840
DB 797 ACACAGAGTGCCATCTTACCATGTACTTTCTGTGAGTTTCATCAAGAGAGAAAGTAAAC 856
QY 841 TTCCTCATCTCAGTATTTGCTATTTTCTGTGACCGTCATTACAGTTATTCTTTATCCA 900
DB 857 TTCCTCATCTCAGTATTTGCTATTTTCTGTGACCGTCATTACAGTTATTCTTTATCCA 916
QY 901 TCCTTTTTCCTGATTTGCTACTATCATTTGATCTGAGTCAACATAGTAAAGTCTAA 960
DB 917 TCCTTTTTCCTGATTTGCTACTATCATTTGATCTGAGTCAACATAGTAAAGTCTAA 976
QY 961 CTGAGGTATGGAGCCTCCATCATCA 985
DB 977 CTGAGGTATGGAGCCTCCATCATCA 1001

RESULT 2
US-09-978-697-96
; Sequence 96, Application US/09978697
; Patent No. US20020169284A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630FIC27
; CURRENT APPLICATION NUMBER: US/09/978,697
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

Query Match 61.5%; Score 980.2; DB 9; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY	1	CAGCAATGAATGGCTTTCGATCTTCTGCTTCGAGAAACCAATTTATCTCTCTGGTACTAT	60
DB	17	CAGCAATGAATGGCTTTCGATCTTCTGCTTCGAGAAACCAATTTATCTCTCTGGTACTAT	76
QY	61	TTCTTTTCAAAATTCAGAGTCTGGTCTGGATATTGATAGCCGTCCTACCGCTGAAGTCT	120
DB	77	TTCTTTTCAAAATTCAGAGTCTGGTCTGGATATTGATAGCCGTCCTACCGCTGAAGTCT	136
QY	121	GTGCCACACACACATTTCCACGAGCCCAAGAGATGATGGTGAAGAGGAGATCCAG	180
DB	137	GTGCCACACACACATTTCCACGAGCCCAAGAGATGATGGTGAAGAGGAGATCCAG	196
QY	181	GAGAAAGGGAAGCATGGCAAAAGTGGACGATGGGCGCCGAAAGGAATTTAAAGGAGAAC	240
DB	197	GAGAAAGGGAAGCATGGCAAAAGTGGACGATGGGCGCCGAAAGGAATTTAAAGGAGAAC	256
QY	241	TGGGTGATATGGGAGATCGGGCAATATTGGCAAGACTGGGCCCAATTTGGGAAGAGGGTG	300
DB	257	TGGGTGATATGGGAGATCAGGGCAATATTGGCAAGACTGGGCCCAATTTGGGAAGAGGGTG	316
QY	301	ACAAAGGGGAAAGAGTTTGGTCTTGGAAATACCTGGAGAAAGGCAAGCAGTACTGTCT	360
DB	317	ACAAAGGGGAAAGAGTTTGGTCTTGGAAATACCTGGAGAAAGGCAAGCAGTACTGTCT	376
QY	361	GTGATTTGGAAGATACCGGAAATTTGTGGCAACTGGATATTAGTATTGCCCGGCTCA	420
DB	377	GTGATTTGGAAGATACCGGAAATTTGTGGCAACTGGATATTAGTATTGCCCGGCTCA	436
QY	421	AGACATCTATGAATTTGTCAAGATGTATAGCAGGATTTAGGGAACCTGAGAGAAAT	480
DB	437	AGACATCTATGAATTTGTCAAGATGTATAGCAGGATTTAGGGAACCTGAGAGAAAT	496
QY	481	TCTACTATCATGTGCGAAGAGAGAACTACAGGAAATCCCTAACCCACTGCAGGATTC	540
DB	497	TCTACTATCATGTGCGAAGAGAGAACTACAGGAAATCCCTAACCCACTGCAGGATTC	556
QY	541	GGGGTGAATGTACCCATGCCAGAGTGAAGTGCACACACTCATCGTGAATG	600
DB	557	GGGGTGAATGTACCCATGCCAGAGTGAAGTGCACACACTCATCGTGAATG	616
QY	601	TTGCCAAGAGTGGCTTCTTTCCGGTGTTCATTGGCGTGAATGACCTTGAAGGGAGGGAC	660
DB	617	TTGCCAAGAGTGGCTTCTTTCCGGTGTTCATTGGCGTGAATGACCTTGAAGGGAGGGAC	676
QY	661	AGTACATGTCACAGACACACTCCACTGCAGACTATAGCACTGGAATGAGGGGGAAC	720
DB	677	AGTACATGTCACAGACACACTCCACTGCAGACTATAGCACTGGAATGAGGGGGAAC	736
QY	721	CCAGCGACCCCTATGGTCATGAGACTGTGTGGAGATGCTGAGCTCGGCAGATGAAATG	780
DB	737	CCAGCGACCCCTATGGTCATGAGACTGTGTGGAGATGCTGAGCTCGGCAGATGAAATG	796
QY	781	ACACAGATGCCATCTTACCAATGACTTTGTCTGTGAGTTCATCAAGAGAAAGTAAC	840
DB	797	ACACAGATGCCATCTTACCAATGACTTTGTCTGTGAGTTCATCAAGAGAAAGTAAC	856
QY	841	TTCCCTCATCTCTACCTATTTCTCTTTCTGTCACCGCTCATACAGTATTCTTTATCCA	900
DB	857	TTCCCTCATCTCTACCTATTTCTCTTTCTGTCACCGCTCATACAGTATTCTTTATCCA	916
QY	901	TCCTTTTTTCTGATTTCTACTATCTGATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA	960
DB	917	TCCTTTTTTCTGATTTCTACTATCTGATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA	976
QY	961	CTGAGGTATGGAGCCCTCCATCATCA 985	

Db 977 CTGAGGTATGGAGCCCTCCATCATCA 1001

RESULT 3

US-09-978-192A-96
; Sequence 96, Application US/09978192A
; Patent No. US20020177553A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630F1C9
; CURRENT APPLICATION NUMBER: US/09/978,192A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077791
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656

;; PRIOR FILING DATE: 1998-03-26
;; PRIOR APPLICATION NUMBER: 60/079664
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: 60/079689
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: 60/079663
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: 60/079728
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: 60/079786
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: 60/079920
;; PRIOR FILING DATE: 1998-03-30
;; PRIOR APPLICATION NUMBER: 60/079923
;; PRIOR FILING DATE: 1998-03-30
;; PRIOR APPLICATION NUMBER: 60/080105
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080107
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080165
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080194
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080327
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080328
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080333
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080334
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/081070
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081049
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081071
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081195
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081203
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081229
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081955
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081817
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081819
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081952
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081838
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/082568
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082569
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082704
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082804
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082700
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082797
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082796
;; PRIOR FILING DATE: 1998-04-23
;; PRIOR APPLICATION NUMBER: 60/083336
;; PRIOR FILING DATE: 1998-04-27
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/083392
;; PRIOR FILING DATE: 1998-04-29

;; PRIOR APPLICATION NUMBER: 60/083495
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083496
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083499
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083545
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083554
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083558
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083559
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083500
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083742
;; PRIOR FILING DATE: 1998-04-30
;; PRIOR APPLICATION NUMBER: 60/084366
;; PRIOR FILING DATE: 1998-05-05
;; PRIOR APPLICATION NUMBER: 60/084414
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084441
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084537
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084639
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084598
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 61.5%; Score 980.2; DB 9; Length 1016;

Best Local Similarity 99.7%; Pred. No. 4.5e-290; Mismatches 3; Indels 0; Gaps 0;

Matches 982; Conservative 0;

Qy	1	CAGCAATGAATGGCTTTGCATCCTTCGGAAGAAACCAATTTATCCTCTGGTACTAT	60
Db	17	CAGCAATGAATGGCTTTGCATCCTTCGGAAGAAACCAATTTATCCTCTGGTACTAT	76
Qy	61	TTCTTTTGCAAATTCAGAGTCTGGGCTCTGATAGCCGCTCTACCGCTGAAGTCT	120
Db	77	TTCTTTTGCAAATTCAGAGTCTGGGCTCTGATAGCCGCTCTACCGCTGAAGTCT	136
Qy	121	GTGCCACACACACAATTTCCACGAGGCCAAAGGAGATGATGCTGAAAAAGGAGATCCAG	180

;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080107
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080165
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080194
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080327
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080328
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080333
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080334
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/081070
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081049
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081071
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081195
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081203
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081229
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081955
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081817
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081819
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081952
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081838
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/082568
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082569
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082704
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082804
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082700
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082797
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082796
;; PRIOR FILING DATE: 1998-04-23
;; PRIOR APPLICATION NUMBER: 60/083336
;; PRIOR FILING DATE: 1998-04-27
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/083392
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083495
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083496
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083499
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083545
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083554
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083558
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083559
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083500
;; PRIOR FILING DATE: 1998-04-29

;; PRIOR APPLICATION NUMBER: 60/083742
;; PRIOR FILING DATE: 1998-04-30
;; PRIOR APPLICATION NUMBER: 60/084366
;; PRIOR FILING DATE: 1998-05-05
;; PRIOR APPLICATION NUMBER: 60/084414
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084441
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084637
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084639
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084598
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 61.5%; Score 980.2; DB 9; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CAGCAATGAATGGCTTTGGCATCTTGGTTCGAGAAACCAATTTATCTCTCTGGTACTAT 60
Db 17 CAGCAATGAATGGCTTTGGCATCTTGGTTCGAGAAACCAATTTATCTCTCTGGTACTAT 76
Qy 61 TTCTTTTGCATTTAGAGTCTGGGTCTGGATATTGATAGCGTCTCTACCGCTGAAGTCT 120
Db 77 TTCTTTTGCATTTAGAGTCTGGGTCTGGATATTGATAGCGTCTCTACCGCTGAAGTCT 136
Qy 121 GTGCCACACACAAATTTACAGGACCCAAAGGAGATGATGGTGAAGAGAGATCCAG 180
Db 137 GTGCCACACACAAATTTACAGGACCCAAAGGAGATGATGGTGAAGAGAGATCCAG 196
Qy 181 GAGAAAGAGGAAAGCATGGCAAGTGGGACCGATGGGCGCGGAAAGCAATTTAAAGGAGAAC 240
Db 197 GAGAAAGAGGAAAGCATGGCAAGTGGGACCGATGGGCGCGGAAAGCAATTTAAAGGAGAAC 256
Qy 241 TGGGTGATATGGGAGATCGGGGCAATTTGGCAGACTGGGCCCATTTGGGAGAGAGGGTG 300
Db 257 TGGGTGATATGGGAGATCAGGGCAATTTGGCAGACTGGGCCCATTTGGGAGAGAGGGTG 316
Qy 301 ACAAGGGGAAAAAGTTTGTCTTGGATACCTCGAGAAAAAGCAAGCAAGTACTGTCT 360
Db 317 ACAAGGGGAAAAAGTTTGTCTTGGATACCTCGAGAAAAAGCAAGTACTGTCT 376
Qy 361 GTGATTGTGGAAGATACCGGAATTTGTGTGGCAACTGGATATTAGTATTTGCCCGCTCA 420

Db 377 GTGATGTGGAGATACCGGAAATTTGTTGACAACTGGATATTAGTATTGCTCGGCTCA 436
QY 421 AGACATCTATGAAGTTTGTCAAGAAATGTGATAGCAGGATTTAGGGAACCTGAAGAGAAAT 480
Db 437 AGACATCTATGAAGTTTGTCAAGAAATGTGATAGCAGGATTTAGGGAACCTGAAGAGAAAT 496
QY 481 TCTACTACATGTGAGGAAGAGAACTACAGGGAATCCCTAACCCACTCGAGGATTC 540
Db 497 TCTACTACATGTGAGGAAGAGAACTACAGGGAATCCCTAACCCACTCGAGGATTC 556
QY 541 GGGGTGGAAATGTACCATGCCCAAGAGTGAAGCTGCCAACACACTCATCGCTGACTATG 600
Db 557 GGGGTGGAAATGTACCATGCCCAAGAGTGAAGCTGCCAACACACTCATCGCTGACTATG 616
QY 601 TTGCCAAGAGTGGCTTCTTTCGGGTTCATTTGGCGTGAATGACCTTGAAGGGAGGGAC 660
Db 617 TTGCCAAGAGTGGCTTCTTTCGGGTTCATTTGGCGTGAATGACCTTGAAGGGAGGGAC 676
QY 661 AGTACATGTTCACACACAACTCCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 720
Db 677 AGTACATGTTCACACACAACTCCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 736
QY 721 CCAGGACCCCTATGGTCATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
Db 737 CCAGGACCCCTATGGTCATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCATCTTACCATGTACTTTGCTGTGAGTTCATCAAGAGAAAGTAACTAAC 840
Db 797 ACACAGAGTGCATCTTACCATGTACTTTGCTGTGAGTTCATCAAGAGAAAGTAACTAAC 856
QY 841 TTCCCTCATCCCTACGTAATTTGCTATTTTCCTGTGACGTCATTAACATTTGTTATCCA 900
Db 857 TTCCCTCATCCCTACGTAATTTGCTATTTTCCTGTGACGTCATTAACATTTGTTATCCA 916
QY 901 TCCCTTTTTCCTGATTTGCTACTACATTTGATCTGAGTCAACATAGCTAGAAATGCTAAA 960
Db 917 TCCCTTTTTCCTGATTTGCTACTACATTTGATCTGAGTCAACATAGCTAGAAATGCTAAA 976
QY 961 CTGAGTATGAGGCTCCCATCATCA 985
Db 977 CTGAGTATGAGGCTCCCATCATCA 1001

RESULT 5

US-09-978-189-96

Sequence 96, Application US/09978189

Publication No. US20030004102A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi

APPLICANT: Baker Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleon

APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth J.

APPLICANT: Kijavini, Ivar J.

APPLICANT: Kuo, Sophia S.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas P.

APPLICANT: Roy, Margaret Ann

APPLICANT: Shelton, David L.

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C7
CURRENT APPLICATION NUMBER: US/09/978,189
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070

;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081049
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081071
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081195
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081203
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081229
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081955
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081817
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081819
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081952
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081838
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/082568
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082569
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082704
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082804
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082700
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082797
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082796
;; PRIOR FILING DATE: 1998-04-23
;; PRIOR APPLICATION NUMBER: 60/083336
;; PRIOR FILING DATE: 1998-04-27
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/083392
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083495
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083496
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083499
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083545
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083554
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083558
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083559
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083500
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083742
;; PRIOR FILING DATE: 1998-04-30
;; PRIOR APPLICATION NUMBER: 60/084366
;; PRIOR FILING DATE: 1998-05-05
;; PRIOR APPLICATION NUMBER: 60/084414
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084441
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084637
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084639
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084598
;; PRIOR FILING DATE: 1998-05-07

;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-5-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 61.5%; Score 980.2; DB 10; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY	1	CAGCAATGAATGGCTTTGGATCCTTCTCGAAGAACCAATTTATCTCTCTGGTACTAT	60
DB	17	CAGCAATGAATGGCTTTGGATCCTTCTCGAAGAACCAATTTATCTCTCTGGTACTAT	76
QY	61	TTCTTTTGCATAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCTACCGTGAAGTCT	120
DB	77	TTCTTTTGCATAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCTACCGTGAAGTCT	136
QY	121	GTGCCACACACACAAATTCACAGGACCCCAAGGACATGATGTGAAAGAGAGATCCAG	180
DB	137	GTGCCACACACACAAATTCACAGGACCCCAAGGACATGATGTGAAAGAGAGATCCAG	196
QY	181	GAGAAGAGGGGAAAGCATGGCAAAAGTGGGACGCAATGGGGCCGAAAGAAATTAAGAGAAAC	240
DB	197	GAGAAGAGGGGAAAGCATGGCAAAAGTGGGACGCAATGGGGCCGAAAGAAATTAAGAGAAAC	256
QY	241	TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG	300
DB	257	TGGGTGATATGGGAGATCAGGGCAATATTGGCAAGACTGGGGCCCATTTGGGAAGAGGGTG	316
QY	301	ACAAAGGGGAAAGGTTTCTTTTGGAAATCTCTGGAAATAGGGGAAAGGCAAGGAGGTACTGTCT	360
DB	317	ACAAAGGGGAAAGGTTTCTTTTGGAAATCTCTGGAAATAGGGGAAAGGCAAGGAGGTACTGTCT	376
QY	361	GTGATTTGGAAGATACCGGAATTTTGTGGCAACTGGATATTAGTATTGCCCGCTCA	420
DB	377	GTGATTTGGAAGATACCGGAATTTTGTGGCAACTGGATATTAGTATTGTCTCGCTCA	436
QY	421	AGACATCTATGAAGTTTGTCAAGAAATGTGATACAGGGATAGGGAAATCTGAAGAGAAAT	480
DB	437	AGACATCTATGAAGTTTGTCAAGAAATGTGATACAGGGATAGGGAAATCTGAAGAGAAAT	496
QY	481	TCTACTACATCGTCAGGAAGAGAAATCTACAGGGAATCCCTAACCCACTCAGGAGTTTC	540
DB	497	TCTACTACATCGTCAGGAAGAGAAATCTACAGGGAATCCCTAACCCACTCAGGAGTTTC	556
QY	541	GGGGTGGAAATGCTAGCCATCCCAAGGATGAAGTGCACACACTCATCGCTGACTATG	600
DB	557	GGGGTGGAAATGCTAGCCATCCCAAGGATGAAGTGCACACACTCATCGCTGACTATG	616
QY	601	TTGCCAAGAGTGGCTTCTTTTGGGGTGTTCATTTGGCGTGAATGACCTTGAAGAGGGGAC	660

Db 617 TTGCCAAGAGTGGCTTCTTTGGGTGTTTCATTTGGCGTGAATGACCTTGAAGAGGAGGGAC 676
QY 661 AGTACATGTTCCACAGCAACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 720
Db 677 AGTACATGTTCCACAGCAACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 736
QY 721 CCAGGAGCCCTATGGTCTATGAGGAGCTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
Db 737 CCAGGAGCCCTATGGTCTATGAGGAGCTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCCATCTTACCATGTACTTTGTCTGTGAGTTTCATCAAGAGAGAGAAAGTAAC 840
Db 797 ACACAGAGTGCCATCTTACCATGTACTTTGTCTGTGAGTTTCATCAAGAGAGAGAAAGTAAC 856
QY 841 TTCCTCTCTCTACGATTTTCTATTTTCTCTGTCGACCGTCAATTACAGTTATTGTTATCCA 900
Db 857 TTCCTCTCTCTACGATTTTCTATTTTCTCTGTCGACCGTCAATTACAGTTATTGTTATCCA 916
QY 901 TCCTTTTTTTCCTGATTTGATCTTACATTTGATCTGAGTCAACATAGCTAGAAATGCTTAA 960
Db 917 TCCTTTTTTTCCTGATTTGATCTTACATTTGATCTGAGTCAACATAGCTAGAAATGCTTAA 976
QY 961 CTGAGGTATGAGCCTCCATCATCA 985
Db 977 CTGAGGTATGAGCCTCCATCATCA 1001

RESULT 6

US-09-978-608A-96
; Sequence 96, Application US/09978608A
; Publication No. US20030045462A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PIC22
; CURRENT APPLICATION NUMBER: US/09/978,608A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 96
; LENGTH: 1016
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-978-608A-96

Query Match 61.5%; Score 980.2; DB 10; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 CAGCAATGAATGGCTTTTGGCATCTTGTCTCGAAGAAACCAATTTATCTCTCGTACTAT 60
Db 17 CAGCAATGAATGGCTTTTGGCATCTTGTCTCGAAGAAACCAATTTATCTCTCGTACTAT 76
QY 61 TTCCTTTTGCMAATTCAGAGTCTGGGTCTGGATATTTGATAGCCCTCTACCGCTGAAGTCT 120
Db 77 TTCCTTTTGCMAATTCAGAGTCTGGGTCTGGATATTTGATAGCCCTCTACCGCTGAAGTCT 136
QY 121 GTGCCACACACACAATTTCCACAGGACCCCAAGAGATGATGCTGAAAAGAGAGATCCAG 180
Db 137 GTGCCACACACACAATTTCCACAGGACCCCAAGAGATGATGCTGAAAAGAGAGATCCAG 196
QY 191 GAGAGAGGGGAAACATGCGCAAGTGGGACGCTATGGGCGGAAAGGAAATTAAGAGAGAAC 240
Db 197 GAGAGAGGGGAAACATGCGCAAGTGGGACGCTATGGGCGGCGGAAAGGAAATTAAGAGAGAAC 256
QY 241 TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGGCCCATTTGGGAAGAGGGTG 300
Db 257 TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGGCCCATTTGGGAAGAGGGTG 316
QY 301 ACAAAGGGGAAAAAGGTTTCTTGGAAATACCTGGAGAAAAAGCAAGAGAGTACTGTCT 360
Db 317 ACAAAGGGGAAAAAGGTTTCTTGGAAATACCTGGAGAAAAAGCAAGAGAGTACTGTCT 376
QY 361 GTGATTGTGGAAGATACCGGAAATTTTGTGGACAACTGGGATATTAGTATTTGCCGGCTCA 420
Db 377 GTGATTGTGGAAGATACCGGAAATTTTGTGGACAACTGGGATATTAGTATTTGCCGGCTCA 436
QY 421 AGACATCTATGAAGTTTGTCAAGAAATGTATAGCAGGGATTAAGGAAACTGAAGAGAAAT 480
Db 437 AGACATCTATGAAGTTTGTCAAGAAATGTATAGCAGGGATTAAGGAAACTGAAGAGAAAT 496
QY 481 TCTACTACATCGTCAGGAGAGAGAACTACAGGGAATCCCTAAACCCCTGAGGATTC 540
Db 497 TCTACTACATCGTCAGGAGAGAGAACTACAGGGAATCCCTAAACCCCTGAGGATTC 556
QY 541 GGGGTGGAATGCTAGCCATGCCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATG 600
Db 557 GGGGTGGAATGCTAGCCATGCCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATG 616
QY 601 TTGCCAAGAGTGGCTTCTTTGGGTGTTTCAATTGGCGTGAATGACCTTGAAGGGAGGGAC 660
Db 617 TTGCCAAGAGTGGCTTCTTTGGGTGTTTCAATTGGCGTGAATGACCTTGAAGGGAGGGAC 676
QY 661 AGTACATGTTCCACAGACAACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 720
Db 677 AGTACATGTTCCACAGACAACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 736
QY 721 CCAGGAGCCCTATGGTCTATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
Db 737 CCAGGAGCCCTATGGTCTATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCCATCTTACCATGTACTTTGTCTGTGAGTTTCATCAAGAGAGAGAAAGTAAC 840
Db 797 ACACAGAGTGCCATCTTACCATGTACTTTGTCTGTGAGTTTCATCAAGAGAGAGAAAGTAAC 856
QY 841 TTCCTCTCTCTACGATTTTCTATTTTCTCTGTCGACCGTCAATTACAGTTATTGTTATCCA 900
Db 857 TTCCTCTCTCTACGATTTTCTATTTTCTCTGTCGACCGTCAATTACAGTTATTGTTATCCA 916
QY 901 TCCTTTTTTTCCTGATTTGATCTTACATTTGATCTGAGTCAACATAGCTAGAAATGCTTAA 960
Db 917 TCCTTTTTTTCCTGATTTGATCTTACATTTGATCTGAGTCAACATAGCTAGAAATGCTTAA 976
QY 961 CTGAGGTATGAGCCTCCATCATCA 985
Db 977 CTGAGGTATGAGCCTCCATCATCA 1001

RESULT 7
US-09-978-585A-96
; Sequence 96, Application US/09978585A
; Publication No. US20030049633A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C15
; CURRENT APPLICATION NUMBER: US/09/978,585A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 96
; LENGTH: 1016
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-978-585A-96

Query Match 61.5%; Score 980.2; DB 10; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CAGCAATGAATGGCTTTCATCTGCTTCGAGAAACCAATTTATCTCTCTGCTACTAT 60
DB 17 CAGCAATGAATGGCTTTCATCTGCTTCGAGAAACCAATTTATCTCTCTGCTACTAT 76
QY 61 TTCTTTTGCATTCAGAGTCTGGGTCTGGATATTGATAGCCGCTCTACCGCTGAAGTCT 120
DB 77 TTCTTTTGCATTCAGAGTCTGGGTCTGGATATTGATAGCCGCTCTACCGCTGAAGTCT 136
QY 121 GTGCCACACACACATTTCCAGAGCCCAAGAGAGATGATGGTGAAGAGAGATCCAG 180
DB 137 GTGCCACACACACATTTCCAGAGCCCAAGAGAGATGATGGTGAAGAGAGATCCAG 196
QY 181 GAGAGAGAGAGAGAGATGAGAGAGATGAGAGAGATGAGAGAGATGAGAGAGATGAGAGAG 240
DB 197 GAGAGAGAGAGAGATGAGAGAGATGAGAGAGATGAGAGAGATGAGAGAGATGAGAGAG 256
QY 241 TGGGTGATATGGAGATGGGCAATATTCGACAGACTGGGCCCATTTGGGAAGAGGGTG 300
DB 257 TGGGTGATATGGAGATGGGCAATATTCGACAGACTGGGCCCATTTGGGAAGAGGGTG 316
QY 301 ACAAGGGGAAAAAGGTTTGCTTGGATACCTCTGGAGAAAAAGGCAAGACAGAGTACTGTCT 360
DB 317 ACAAGGGGAAAAAGGTTTGCTTGGATACCTCTGGAGAAAAAGGCAAGACAGAGTACTGTCT 376

QY 361 GTGATTGTGGAAGATACCGGAATTTGTTGGCAACTGGATATTAGTATTCGCCGGCTCA 420
DB 377 GTGATTGTGGAAGATACCGGAATTTGTTGGCAACTGGATATTAGTATTCGCCGGCTCA 436
QY 421 AGACATCTATGAAGTTTGTCAAGAATGTGATAGCAGGATAGGGAATAGAGAGAAAT 480
DB 437 AGACATCTATGAAGTTTGTCAAGAATGTGATAGCAGGATAGGGAATAGAGAGAAAT 496
QY 481 TCTACTACATCGTGAGGAG 540
DB 497 TCTACTACATCGTGAGGAG 556
QY 541 GGGGTGGAATGCTAGCCATGCCCAAGGATGAAGCTGCCCAACACACTCATCGCTGACTATG 600
DB 557 GGGGTGGAATGCTAGCCATGCCCAAGGATGAAGCTGCCCAACACACTCATCGCTGACTATG 616
QY 601 TTGCCAAGAGTGGCTTCTTTCCGGGTGTTTCATTTGGCGTGAATGACCTTGAAGGGAGGAC 660
DB 617 TTGCCAAGAGTGGCTTCTTTCCGGGTGTTTCATTTGGCGTGAATGACCTTGAAGGGAGGAC 676
QY 661 AGTACATGTTTCACAGACAAACACTTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 720
DB 677 AGTACATGTTTCACAGACAAACACTTCCACTGCAGAACTATAGCAACTGGAATGAGGGGGAAC 736
QY 721 CCAGCGACCCCTATGCTATGAGGACTGTGTGAGAGATGCTGAGCTCTGCAGATGGAATG 780
DB 737 CCAGCGACCCCTATGCTATGAGGACTGTGTGAGAGATGCTGAGCTCTGCAGATGGAATG 796
QY 781 ACACAGAGTGGCATCTTACCATGTACTTTGCTGTGTGAGTTTCATCAAGAGAGAAAAAGTAAC 840
DB 797 ACACAGAGTGGCATCTTACCATGTACTTTGCTGTGTGAGTTTCATCAAGAGAGAAAAAGTAAC 856
QY 841 TTCCCTCATCTACGATTTTGTCTATTTTCTGTGACCGCTCATCAGTTATTTGTTATCCA 900
DB 857 TTCCCTCATCTACGATTTTGTCTATTTTCTGTGACCGCTCATCAGTTATTTGTTATCCA 916
QY 901 TCCTTTTTTCTCGATTGTACTACATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA 960
DB 917 TCCTTTTTTCTCGATTGTACTACATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA 976
QY 961 CTGAGGTATGGAGCCCTCCATCATCA 985
DB 977 CTGAGGTATGGAGCCCTCCATCATCA 1001

RESULT 8
US-09-978-191A-96
; Sequence 96, Application US/09978191A
; Publication No. US20030050239A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.

APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C4
CURRENT APPLICATION NUMBER: US/09/978,191A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084598

/	PRIOR FILING DATE: 1998-05-07
/	PRIOR APPLICATION NUMBER: 60/084600
/	PRIOR FILING DATE: 1998-05-07
/	PRIOR APPLICATION NUMBER: 60/084627
/	PRIOR FILING DATE: 1998-05-07
/	PRIOR APPLICATION NUMBER: 60/084643
/	PRIOR FILING DATE: 1998-05-07
/	PRIOR APPLICATION NUMBER: 60/085339
/	PRIOR FILING DATE: 1998-05-13
/	PRIOR APPLICATION NUMBER: 60/085338
/	PRIOR FILING DATE: 1998-05-13
/	PRIOR APPLICATION NUMBER: 60/085323
/	PRIOR FILING DATE: 1998-05-13
/	PRIOR APPLICATION NUMBER: 60/085582
/	PRIOR FILING DATE: 1998-05-15
/	PRIOR APPLICATION NUMBER: 60/085700
/	PRIOR FILING DATE: 1998-05-15
/	PRIOR APPLICATION NUMBER: 60/085689
/	PRIOR FILING DATE: 1998-05-15
/	PRIOR APPLICATION NUMBER: 60/085579
/	PRIOR FILING DATE: 1998-05-15
/	PRIOR APPLICATION NUMBER: 60/085580
/	PRIOR FILING DATE: 1998-05-15
/	PRIOR APPLICATION NUMBER: 60/085573
/	PRIOR FILING DATE: 1998-05-15
/	PRIOR APPLICATION NUMBER: 60/085704
/	PRIOR FILING DATE: 1998-05-15
/	PRIOR APPLICATION NUMBER: 60/085697
Query Match 61.5%; Score 980.2; DB 10; Length 1016;	
Best Local Similarity 99.7%; Pred. No. 4.5e-290;	
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	
QY	1 CAGCAATGAATGGCTTTGCATCCTTGTTCGAGAAACCAATTATTCCTCGTGACTAT 60
DB	17 CAGCAATGAATGGCTTTGCATCCTTGTTCGAGAAACCAATTATTCCTCGTGACTAT 76
QY	61 TTTCTTTTCCAATTACAGAGTCGGGTCTCGATATTGATAGCCGTCTCACCCTGAAGTCT 120
DB	77 TTTCTTTTCCAANTTCAGAGTCGGGTCTCGATATTGATAGCCGTCTCACCCTGAAGTCT 136
QY	121 GTGCCACACACACAATTTTCACAGGACCCAAAAGAGATGATGTGAAAAGAGAGATCCAG 180
DB	137 GTGCCACACACACAATTTTCACAGGACCCAAAAGAGATGATGTGAAAAGAGATCCAG 196
QY	181 GAGAAGAGGAAAGCATGGCAAAGTGGACGCATGGGGCCGAAGCAATTAAGAGAGAAC 240
DB	197 GAGAAGAGGAAAGCATGGCAAAGTGGACGCATGGGGCCGAAGCAATTAAGAGAGAAC 256
QY	241 TGGGTGATATGGAGATCGGGCAATATTTGGCAAGACTGGGCCCNTTGGAAAGAGGGTG 300
DB	257 TGGGTGATATGGAGATCAGGGCAATATTTGGCAAGACTGGGCCCNTTGGAAAGAGGGTG 316
QY	301 ACAAAGGGGAAAAAGTTTGGTTGGATACCTGGAGAAAAAGCAAGCACAGGTACTGTCT 360
DB	317 ACAAAGGGGAAAAAGTTTGGTTGGATACCTGGAGAAAAAGCAAGCACAGGTACTGTCT 376
QY	361 GTGATTGTGGAAGATACCGGAAATTTGTTGGAACAATTTGATATTTGCCCGGCTCA 420
DB	377 GTGATTGTGGAAGATACCGGAAATTTGTTGGAACAATTTGATATTTGCCCGGCTCA 436
QY	421 AGACATCTATGAAGTTTGTCAAGATGTGATAGCAGGATTAGGGAACCTGAAGAGAAAT 480
DB	437 AGNCATCTATGAAGTTTGTCAAGATGTGATAGCAGGATTAGGGAACCTGAAGAGAAAT 496
QY	481 TTCTACTACTGTGCGAGGAAGAGAAGACTACAGGGAAATCCCTAACCCACTGCAGATTTC 540
DB	497 TTCTACTACTGTGCGAGGAAGAGAAGACTACAGGGAAATCCCTAACCCACTGCAGATTTC 556
QY	541 GGSGTGGAAATGCTAGCCATGCCCAAGGATGAAGCTGCCCAACACACTCATCGCTGACTATG 600
DB	557 GGSGTGGAAATGCTAGCCATGCCCAAGGATGAAGCTGCCCAACACACTCATCGCTGACTATG 616

1 PRIOR FILING DATE: 1997-11-13
2 PRIOR APPLICATION NUMBER: 60/066364
3 PRIOR FILING DATE: 1997-11-21
4 PRIOR APPLICATION NUMBER: 60/077450
5 PRIOR FILING DATE: 1998-03-10
6 PRIOR APPLICATION NUMBER: 60/077632
7 PRIOR FILING DATE: 1998-03-11
8 PRIOR APPLICATION NUMBER: 60/077641
9 PRIOR FILING DATE: 1998-03-11
10 PRIOR APPLICATION NUMBER: 60/077649
11 PRIOR FILING DATE: 1998-03-11
12 PRIOR APPLICATION NUMBER: 60/077791
13 PRIOR FILING DATE: 1998-03-12
14 PRIOR APPLICATION NUMBER: 60/078004
15 PRIOR FILING DATE: 1998-03-13
16 PRIOR APPLICATION NUMBER: 60/078886
17 PRIOR FILING DATE: 1998-03-20
18 PRIOR APPLICATION NUMBER: 60/078936
19 PRIOR FILING DATE: 1998-03-20
20 PRIOR APPLICATION NUMBER: 60/078910
21 PRIOR FILING DATE: 1998-03-20
22 PRIOR APPLICATION NUMBER: 60/078939
23 PRIOR FILING DATE: 1998-03-20
24 PRIOR APPLICATION NUMBER: 60/079294
25 PRIOR FILING DATE: 1998-03-25
26 PRIOR APPLICATION NUMBER: 60/079656
27 PRIOR FILING DATE: 1998-03-26
28 PRIOR APPLICATION NUMBER: 60/079664
29 PRIOR FILING DATE: 1998-03-27
30 PRIOR APPLICATION NUMBER: 60/079689
31 PRIOR FILING DATE: 1998-03-27
32 PRIOR APPLICATION NUMBER: 60/079663
33 PRIOR FILING DATE: 1998-03-27
34 PRIOR APPLICATION NUMBER: 60/079728
35 PRIOR FILING DATE: 1998-03-27
36 PRIOR APPLICATION NUMBER: 60/079786
37 PRIOR FILING DATE: 1998-03-27
38 PRIOR APPLICATION NUMBER: 60/079920
39 PRIOR FILING DATE: 1998-03-30
40 PRIOR APPLICATION NUMBER: 60/079923
41 PRIOR FILING DATE: 1998-03-30
42 PRIOR APPLICATION NUMBER: 60/080105
43 PRIOR FILING DATE: 1998-03-31
44 PRIOR APPLICATION NUMBER: 60/080107
45 PRIOR FILING DATE: 1998-03-31
46 PRIOR APPLICATION NUMBER: 60/080165
47 PRIOR FILING DATE: 1998-03-31
48 PRIOR APPLICATION NUMBER: 60/080194
49 PRIOR FILING DATE: 1998-03-31
50 PRIOR APPLICATION NUMBER: 60/080327
51 PRIOR FILING DATE: 1998-04-01
52 PRIOR APPLICATION NUMBER: 60/080328
53 PRIOR FILING DATE: 1998-04-01
54 PRIOR APPLICATION NUMBER: 60/080333
55 PRIOR FILING DATE: 1998-04-01
56 PRIOR APPLICATION NUMBER: 60/080334
57 PRIOR FILING DATE: 1998-04-01
58 PRIOR APPLICATION NUMBER: 60/081070
59 PRIOR FILING DATE: 1998-04-08
60 PRIOR APPLICATION NUMBER: 60/081049
61 PRIOR FILING DATE: 1998-04-08
62 PRIOR APPLICATION NUMBER: 60/081071
63 PRIOR FILING DATE: 1998-04-08
64 PRIOR APPLICATION NUMBER: 60/081195
65 PRIOR FILING DATE: 1998-04-08
66 PRIOR APPLICATION NUMBER: 60/081203
67 PRIOR FILING DATE: 1998-04-09
68 PRIOR APPLICATION NUMBER: 60/081229
69 PRIOR FILING DATE: 1998-04-09
70 PRIOR APPLICATION NUMBER: 60/081955
71 PRIOR FILING DATE: 1998-04-15
72 PRIOR APPLICATION NUMBER: 60/081817
73 PRIOR FILING DATE: 1998-04-15

74 PRIOR APPLICATION NUMBER: 60/081819
75 PRIOR FILING DATE: 1998-04-15
76 PRIOR APPLICATION NUMBER: 60/081952
77 PRIOR FILING DATE: 1998-04-15
78 PRIOR APPLICATION NUMBER: 60/081838
79 PRIOR FILING DATE: 1998-04-15
80 PRIOR APPLICATION NUMBER: 60/082568
81 PRIOR FILING DATE: 1998-04-21
82 PRIOR APPLICATION NUMBER: 60/082569
83 PRIOR FILING DATE: 1998-04-21
84 PRIOR APPLICATION NUMBER: 60/082704
85 PRIOR FILING DATE: 1998-04-22
86 PRIOR APPLICATION NUMBER: 60/082804
87 PRIOR FILING DATE: 1998-04-22
88 PRIOR APPLICATION NUMBER: 60/082700
89 PRIOR FILING DATE: 1998-04-22
90 PRIOR APPLICATION NUMBER: 60/082797
91 PRIOR FILING DATE: 1998-04-22
92 PRIOR APPLICATION NUMBER: 60/082796
93 PRIOR FILING DATE: 1998-04-23
94 PRIOR APPLICATION NUMBER: 60/083336
95 PRIOR FILING DATE: 1998-04-27
96 PRIOR APPLICATION NUMBER: 60/083322
97 PRIOR FILING DATE: 1998-04-28
98 PRIOR APPLICATION NUMBER: 60/083392
99 PRIOR FILING DATE: 1998-04-29
100 PRIOR APPLICATION NUMBER: 60/083495
101 PRIOR FILING DATE: 1998-04-29
102 PRIOR APPLICATION NUMBER: 60/083496
103 PRIOR FILING DATE: 1998-04-29
104 PRIOR APPLICATION NUMBER: 60/083499
105 PRIOR FILING DATE: 1998-04-29
106 PRIOR APPLICATION NUMBER: 60/083545
107 PRIOR FILING DATE: 1998-04-29
108 PRIOR APPLICATION NUMBER: 60/083554
109 PRIOR FILING DATE: 1998-04-29
110 PRIOR APPLICATION NUMBER: 60/083558
111 PRIOR FILING DATE: 1998-04-29
112 PRIOR APPLICATION NUMBER: 60/083559
113 PRIOR FILING DATE: 1998-04-29
114 PRIOR APPLICATION NUMBER: 60/083500
115 PRIOR FILING DATE: 1998-04-29
116 PRIOR APPLICATION NUMBER: 60/083742
117 PRIOR FILING DATE: 1998-04-30
118 PRIOR APPLICATION NUMBER: 60/084366
119 PRIOR FILING DATE: 1998-05-05
120 PRIOR APPLICATION NUMBER: 60/084414
121 PRIOR FILING DATE: 1998-05-06
122 PRIOR APPLICATION NUMBER: 60/084441
123 PRIOR FILING DATE: 1998-05-06
124 PRIOR APPLICATION NUMBER: 60/084637
125 PRIOR FILING DATE: 1998-05-07
126 PRIOR APPLICATION NUMBER: 60/084639
127 PRIOR FILING DATE: 1998-05-07
128 PRIOR APPLICATION NUMBER: 60/084640
129 PRIOR FILING DATE: 1998-05-07
130 PRIOR APPLICATION NUMBER: 60/084598
131 PRIOR FILING DATE: 1998-05-07
132 PRIOR APPLICATION NUMBER: 60/084600
133 PRIOR FILING DATE: 1998-05-07
134 PRIOR APPLICATION NUMBER: 60/084627
135 PRIOR FILING DATE: 1998-05-07
136 PRIOR APPLICATION NUMBER: 60/084643
137 PRIOR FILING DATE: 1998-05-07
138 PRIOR APPLICATION NUMBER: 60/085339
139 PRIOR FILING DATE: 1998-05-13
140 PRIOR APPLICATION NUMBER: 60/085338
141 PRIOR FILING DATE: 1998-05-13
142 PRIOR APPLICATION NUMBER: 60/085323
143 PRIOR FILING DATE: 1998-05-13
144 PRIOR APPLICATION NUMBER: 60/085582
145 PRIOR FILING DATE: 1998-05-15
146 PRIOR APPLICATION NUMBER: 60/085700

; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 61.5%; Score 980.2; DB 10; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CAGCAATGAATGGCTTGGCATCTTCTCGAAGAAACCAATTTATCTCTCTGGTACTAT 60
DB 17 CAGCAATGAATGGCTTGGCATCTTCTCGAAGAAACCAATTTATCTCTCTGGTACTAT 76
QY 61 TTCTTTTGCAAATTCAGAGTCTGGGTCTGGATATTGATAGCGTCTCTACCGCTGAAGTCT 120
DB 77 TTCTTTTGCAAATTCAGAGTCTGGGTCTGGATATTGATAGCGTCTCTACCGCTGAAGTCT 136
QY 121 GTGCCACACACACAATTTCCACAGGACCCCAAGAGATGATGGTCAAAAAGAGATCCAG 180
DB 137 GTGCCACACACACAATTTCCACAGGACCCCAAGAGATGATGGTCAAAAAGAGATCCAG 196
QY 181 GAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
DB 197 GAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 256
QY 241 TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAAGGGTG 300
DB 257 TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAAGGGTG 316
QY 301 ACAGAGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
DB 317 ACAGAGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 376
QY 361 GTGATTTGGGAAGATACCGGAAATTTTGGCAAACTGGGATATTAGTATGTCGCCGGCTCA 420
DB 377 GTGATTTGGGAAGATACCGGAAATTTTGGCAAACTGGGATATTAGTATGTCGCCGGCTCA 436
QY 421 AGACATCTATGAATTTGTCAAGATGTGTATGATGACAGGATTTAGGAACTGAAGAGAAAT 480
DB 437 AGACATCTATGAATTTGTCAAGATGTGTATGATGACAGGATTTAGGAACTGAAGAGAAAT 496
QY 481 TCTACTATCTGTCAGAGAGAGAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC 540
DB 497 TCTACTATCTGTCAGAGAGAGAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC 556
QY 541 GGGGTGAATCTAGCATGCCCAAGGATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 600
DB 557 GGGGTGAATCTAGCATGCCCAAGGATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 616
QY 601 TTGCCAGAGTGGCTTTCTTGGGTGTTTCAATGGCGTGAATGACCTTGAAGAGGAGGAG 660
DB 617 TTGCCAGAGTGGCTTTCTTGGGTGTTTCAATGGCGTGAATGACCTTGAAGAGGAGGAG 676
QY 661 AGTACATGTTCCACAGACAACTCCATCTGAGAGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 720
DB 677 AGTACATGTTCCACAGACAACTCCATCTGAGAGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 736
QY 721 CCAGGAGCCCTATGTTGATGAGAGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
DB 737 CCAGGAGCCCTATGTTGATGAGAGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCATCTTACCATGTACTTTGTGTGAGTTTCATCAAGAGAGAGAGAGTAAAC 840
DB 797 ACACAGAGTGCATCTTACCATGTACTTTGTGTGAGTTTCATCAAGAGAGAGAGAGTAAAC 856

841 TTCCCTCATCTCAGTATTGCTATTTTCCGTGTCACCGTCAATTACAGTTATTGTTATCCA 900
DB 857 TTCCCTCATCTCAGTATTGCTATTTTCCGTGTCACCGTCAATTACAGTTATTGTTATCCA 916
QY 901 TCCTTTTTCCTGATTGCTACTACATTGATCTGAGTCAACATAGCTAGAGAAATGCTAAA 960
DB 917 TCCTTTTTCCTGATTGCTACTACATTGATCTGAGTCAACATAGCTAGAGAAATGCTAAA 976
QY 961 CTGAGGTATGAGGCTCCCATCATCA 985
DB 977 CTGAGGTATGAGGCTCCCATCATCA 1001

RESULT 10
US-09-978-564A-96
; Sequence 96, Application US/09978564A
; Publication No. US20030050241A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: F2630PIC25
; CURRENT APPLICATION NUMBER: US/09/978,564A
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077791
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886

1 PRIOR FILING DATE: 1998-03-20
2 PRIOR APPLICATION NUMBER: 60/078936
3 PRIOR FILING DATE: 1998-03-20
4 PRIOR APPLICATION NUMBER: 60/078910
5 PRIOR FILING DATE: 1998-03-20
6 PRIOR APPLICATION NUMBER: 60/078939
7 PRIOR FILING DATE: 1998-03-20
8 PRIOR APPLICATION NUMBER: 60/079294
9 PRIOR FILING DATE: 1998-03-25
10 PRIOR APPLICATION NUMBER: 60/079656
11 PRIOR FILING DATE: 1998-03-26
12 PRIOR APPLICATION NUMBER: 60/079664
13 PRIOR FILING DATE: 1998-03-27
14 PRIOR APPLICATION NUMBER: 60/079689
15 PRIOR FILING DATE: 1998-03-27
16 PRIOR APPLICATION NUMBER: 60/079663
17 PRIOR FILING DATE: 1998-03-27
18 PRIOR APPLICATION NUMBER: 60/079728
19 PRIOR FILING DATE: 1998-03-27
20 PRIOR APPLICATION NUMBER: 60/079786
21 PRIOR FILING DATE: 1998-03-27
22 PRIOR APPLICATION NUMBER: 60/079920
23 PRIOR FILING DATE: 1998-03-30
24 PRIOR APPLICATION NUMBER: 60/079923
25 PRIOR FILING DATE: 1998-03-30
26 PRIOR APPLICATION NUMBER: 60/080105
27 PRIOR FILING DATE: 1998-03-31
28 PRIOR APPLICATION NUMBER: 60/080107
29 PRIOR FILING DATE: 1998-03-31
30 PRIOR APPLICATION NUMBER: 60/080165
31 PRIOR FILING DATE: 1998-03-31
32 PRIOR APPLICATION NUMBER: 60/080194
33 PRIOR FILING DATE: 1998-03-31
34 PRIOR APPLICATION NUMBER: 60/080327
35 PRIOR FILING DATE: 1998-04-01
36 PRIOR APPLICATION NUMBER: 60/080328
37 PRIOR FILING DATE: 1998-04-01
38 PRIOR APPLICATION NUMBER: 60/080333
39 PRIOR FILING DATE: 1998-04-01
40 PRIOR APPLICATION NUMBER: 60/080334
41 PRIOR FILING DATE: 1998-04-01
42 PRIOR APPLICATION NUMBER: 60/081070
43 PRIOR FILING DATE: 1998-04-08
44 PRIOR APPLICATION NUMBER: 60/081049
45 PRIOR FILING DATE: 1998-04-08
46 PRIOR APPLICATION NUMBER: 60/081071
47 PRIOR FILING DATE: 1998-04-08
48 PRIOR APPLICATION NUMBER: 60/081195
49 PRIOR FILING DATE: 1998-04-08
50 PRIOR APPLICATION NUMBER: 60/081203
51 PRIOR FILING DATE: 1998-04-09
52 PRIOR APPLICATION NUMBER: 60/081229
53 PRIOR FILING DATE: 1998-04-09
54 PRIOR APPLICATION NUMBER: 60/081955
55 PRIOR FILING DATE: 1998-04-15
56 PRIOR APPLICATION NUMBER: 60/081817
57 PRIOR FILING DATE: 1998-04-15
58 PRIOR APPLICATION NUMBER: 60/081819
59 PRIOR FILING DATE: 1998-04-15
60 PRIOR APPLICATION NUMBER: 60/081952
61 PRIOR FILING DATE: 1998-04-15
62 PRIOR APPLICATION NUMBER: 60/081838
63 PRIOR FILING DATE: 1998-04-15
64 PRIOR APPLICATION NUMBER: 60/082568
65 PRIOR FILING DATE: 1998-04-21
66 PRIOR APPLICATION NUMBER: 60/082569
67 PRIOR FILING DATE: 1998-04-21
68 PRIOR APPLICATION NUMBER: 60/082704
69 PRIOR FILING DATE: 1998-04-22
70 PRIOR APPLICATION NUMBER: 60/082804
71 PRIOR FILING DATE: 1998-04-22
72 PRIOR APPLICATION NUMBER: 60/082700
73 PRIOR FILING DATE: 1998-04-22

74 PRIOR APPLICATION NUMBER: 60/082797
75 PRIOR FILING DATE: 1998-04-22
76 PRIOR APPLICATION NUMBER: 60/082796
77 PRIOR FILING DATE: 1998-04-23
78 PRIOR APPLICATION NUMBER: 60/083336
79 PRIOR FILING DATE: 1998-04-27
80 PRIOR APPLICATION NUMBER: 60/083322
81 PRIOR FILING DATE: 1998-04-28
82 PRIOR APPLICATION NUMBER: 60/083392
83 PRIOR FILING DATE: 1998-04-29
84 PRIOR APPLICATION NUMBER: 60/083495
85 PRIOR FILING DATE: 1998-04-29
86 PRIOR APPLICATION NUMBER: 60/083496
87 PRIOR FILING DATE: 1998-04-29
88 PRIOR APPLICATION NUMBER: 60/083499
89 PRIOR FILING DATE: 1998-04-29
90 PRIOR APPLICATION NUMBER: 60/083545
91 PRIOR FILING DATE: 1998-04-29
92 PRIOR APPLICATION NUMBER: 60/083554
93 PRIOR FILING DATE: 1998-04-29
94 PRIOR APPLICATION NUMBER: 60/083558
95 PRIOR FILING DATE: 1998-04-29
96 PRIOR APPLICATION NUMBER: 60/083559
97 PRIOR FILING DATE: 1998-04-29
98 PRIOR APPLICATION NUMBER: 60/083500
99 PRIOR FILING DATE: 1998-04-29
100 PRIOR APPLICATION NUMBER: 60/083742
101 PRIOR FILING DATE: 1998-04-30
102 PRIOR APPLICATION NUMBER: 60/084366
103 PRIOR FILING DATE: 1998-05-05
104 PRIOR APPLICATION NUMBER: 60/084414
105 PRIOR FILING DATE: 1998-05-06
106 PRIOR APPLICATION NUMBER: 60/084441
107 PRIOR FILING DATE: 1998-05-06
108 PRIOR APPLICATION NUMBER: 60/084637
109 PRIOR FILING DATE: 1998-05-07
110 PRIOR APPLICATION NUMBER: 60/084639
111 PRIOR FILING DATE: 1998-05-07
112 PRIOR APPLICATION NUMBER: 60/084640
113 PRIOR FILING DATE: 1998-05-07
114 PRIOR APPLICATION NUMBER: 60/084598
115 PRIOR FILING DATE: 1998-05-07
116 PRIOR APPLICATION NUMBER: 60/084600
117 PRIOR FILING DATE: 1998-05-07
118 PRIOR APPLICATION NUMBER: 60/084627
119 PRIOR FILING DATE: 1998-05-07
120 PRIOR APPLICATION NUMBER: 60/084643
121 PRIOR FILING DATE: 1998-05-07
122 PRIOR APPLICATION NUMBER: 60/085339
123 PRIOR FILING DATE: 1998-05-13
124 PRIOR APPLICATION NUMBER: 60/085338
125 PRIOR FILING DATE: 1998-05-13
126 PRIOR APPLICATION NUMBER: 60/085323
127 PRIOR FILING DATE: 1998-05-13
128 PRIOR APPLICATION NUMBER: 60/085582
129 PRIOR FILING DATE: 1998-05-15
130 PRIOR APPLICATION NUMBER: 60/085700
131 PRIOR FILING DATE: 1998-05-15
132 PRIOR APPLICATION NUMBER: 60/085689
133 PRIOR FILING DATE: 1998-05-15
134 PRIOR APPLICATION NUMBER: 60/085579
135 PRIOR FILING DATE: 1998-05-15
136 PRIOR APPLICATION NUMBER: 60/085580
137 PRIOR FILING DATE: 1998-05-15
138 PRIOR APPLICATION NUMBER: 60/085573
139 PRIOR FILING DATE: 1998-05-15
140 PRIOR APPLICATION NUMBER: 60/085704
141 PRIOR FILING DATE: 1998-05-15
142 PRIOR APPLICATION NUMBER: 60/085697

Query Match 51.5%; Score 980.2; DB 10; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CAGCAATGAATGGCTTTGATCTTTCATCTTCTTCGAGAAACCAATTTATCTCTCTGCTACTAT 60
DB 17 CAGCAATGAATGGCTTTGATCTTTCATCTTCTTCGAGAAACCAATTTATCTCTCTGCTACTAT 76
QY 61 TTCTTTTGGAAATTCAGAGTCTGGGCTCTGGATATTGATAGCCGCTCTACCGCTGAAGTCT 120
DB 77 TTCTTTTGGAAATTCAGAGTCTGGGCTCTGGATATTGATAGCCGCTCTACCGCTGAAGTCT 136
QY 121 GTCCACACACACAATTTCCACAGGACCCAAAGGAGATGATGGTCAAAAAGAGATCCAG 180
DB 137 GTCCACACACACAATTTCCACAGGACCCAAAGGAGATGATGGTCAAAAAGAGATCCAG 196
QY 181 GAGAGAGGAAAGCATGCGCAAGTGGGACGATGGGCGGCAAGGAATTAAGAGAGAC 240
DB 197 GAGAGAGGAAAGCATGCGCAAGTGGGACGATGGGCGGCAAGGAATTAAGAGAGAC 256
QY 241 TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG 300
DB 257 TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG 316
QY 301 ACAAGGGGAAAGGTTTTCCTTGGAACTACCTGGAGAAAGGCAAGCAGTACTGTCT 360
DB 317 ACAAGGGGAAAGGTTTTCCTTGGAACTACCTGGAGAAAGGCAAGCAGTACTGTCT 376
QY 361 GTGATTCGGAAGATACCGGAAATTTGTGGCAACTGGATATTAGTATTGCCCGCTCA 420
DB 377 GTGATTCGGAAGATACCGGAAATTTGTGGCAACTGGATATTAGTATTGCCCGCTCA 436
QY 421 AGACATCTATGAATTTGTCAAGATGTGATAGCAGGATTAGGAACTGAGAGAAAT 480
DB 437 AGACATCTATGAATTTGTCAAGATGTGATAGCAGGATTAGGAACTGAGAGAAAT 496
QY 481 TCTACTCATCTGCAGGAGAGAGAACTACAGGGAATCCCTTAACCCACTCGAGATTC 540
DB 497 TCTACTCATCTGCAGGAGAGAGAACTACAGGGAATCCCTTAACCCACTCGAGATTC 556
QY 541 GGGTGAATCTAGCATGCCCAAGATGAAGCTGCCAAGCACTCATCTGCTGCTATG 600
DB 557 GGGTGAATCTAGCATGCCCAAGATGAAGCTGCCAAGCACTCATCTGCTGCTATG 616
QY 601 TTGCCAAGTGGCTTTCTTTCGGGTGTTCAATTCGGTGAATGACCTTGAAGAGGGAGGAC 660
DB 617 TTGCCAAGTGGCTTTCTTTCGGGTGTTCAATTCGGTGAATGACCTTGAAGAGGGAGGAC 676
QY 661 AGTACATCTTCACAGACACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAC 720
DB 677 AGTACATCTTCACAGACACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAC 736
QY 721 CCAGGACCCCTATGCTATGAGACTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
DB 737 CCAGGACCCCTATGCTATGAGACTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCATCTTACCATGTACTTGTCTGTGAGTTTCATCAAGAAGAAAAGTAA 840
DB 797 ACACAGAGTGCATCTTACCATGTACTTGTCTGTGAGTTTCATCAAGAAGAAAAGTAA 856
QY 841 TTCCCTCATCTAGTATTTCTATTTCTTCTGACCGCTCATTCAGATTATTTGTTATCA 900
DB 857 TTCCCTCATCTAGTATTTCTATTTCTTCTGACCGCTCATTCAGATTATTTGTTATCA 916
QY 901 TCTTTTCTTCTGATTTCTATCTATCTATCTGATCTGAGTCAACATAGCTAGAAAATGCTAAA 960
DB 917 TCTTTTCTTCTGATTTCTATTTCTTCTGATCTGAGTCAACATAGCTAGAAAATGCTAAA 976
QY 961 CTGAGGTATGAGGCTCCATCATCA 985
DB 977 CTGAGGTATGAGGCTCCATCATCA 1001

RESULT 11

US-09-999-833A-96

; Sequence 96, Application US/0999833A

Publication No. US20030054405A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC65
CURRENT APPLICATION NUMBER: US/09/999,833A
CURRENT FILING DATE: 2001-10-24
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663

;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: 60/079728
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: 60/079786
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: 60/079920
;; PRIOR FILING DATE: 1998-03-30
;; PRIOR APPLICATION NUMBER: 60/079923
;; PRIOR FILING DATE: 1998-03-30
;; PRIOR APPLICATION NUMBER: 60/080105
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080107
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080165
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080194
;; PRIOR FILING DATE: 1998-03-31
;; PRIOR APPLICATION NUMBER: 60/080327
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080328
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080333
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080334
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/081070
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081049
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081071
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081195
;; PRIOR FILING DATE: 1998-04-08
;; PRIOR APPLICATION NUMBER: 60/081203
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081229
;; PRIOR FILING DATE: 1998-04-09
;; PRIOR APPLICATION NUMBER: 60/081955
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081817
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081819
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081952
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/081838
;; PRIOR FILING DATE: 1998-04-15
;; PRIOR APPLICATION NUMBER: 60/082568
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082569
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082704
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082804
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082700
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082797
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082796
;; PRIOR FILING DATE: 1998-04-23
;; PRIOR APPLICATION NUMBER: 60/083336
;; PRIOR FILING DATE: 1998-04-27
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/083392
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083495
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083496
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083499
;; PRIOR FILING DATE: 1998-04-29

;; PRIOR APPLICATION NUMBER: 60/083545
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083554
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083558
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083559
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083500
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083742
;; PRIOR FILING DATE: 1998-04-30
;; PRIOR APPLICATION NUMBER: 60/084366
;; PRIOR FILING DATE: 1998-05-05
;; PRIOR APPLICATION NUMBER: 60/084414
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084441
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084637
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084639
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084598
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 61.5%; Score 980.2; DB 10; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CAGCAATGATGGCTTTGGCATCTTGGCTTCGAGAAACCAATTTATCTCTCTGTTACTAT 60
Db 17 CAGCAATGATGGCTTTGGCATCTTGGCTTCGAGAAACCAATTTATCTCTCTGTTACTAT 76
QY 61 TTCTTTTGCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCTCTACCGCTGAAGTCT 120
Db 77 TTCTTTTGCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCTCTACCGCTGAAGTCT 136
QY 121 GTGCCACACACAAATTCACAGACCCGAGAGATGATGGTGAAGAGGATCCAG 180
Db 137 GTGCCACACACAAATTCACAGACCCGAGAGATGATGGTGAAGAGGATCCAG 196
QY 181 GAGAGAGCGGAAAGCATGGCAAGTGGGACGATGGGGCCGAGGAATTAAGAGGAAAC 240
Db 197 GAGAGAGCGGAAAGCATGGCAAGTGGGACGATGGGGCCGAGGAATTAAGAGGAAAC 256

241 TGGGTGATATGGGAGATCGGGGCAATATTGCGCAAGACTGGGCCCATTTGGGAAGAGGGGTG 300
257 TGGGTGATATGGGAGATCAGGGCAATATTGCGCAAGACTGGGCCCATTTGGGAAGAGGGGTG 316
301 ACAAGGGGAAAAAGTTTCTTGGATACCTGGAGAAAAAGCAAGCAGGTACTGTCT 360
317 ACAAGGGGAAAAAGTTTCTTGGATACCTGGAGAAAAAGCAAGCAGGTACTGTCT 376
361 GTGATTGTGGAGATACCGGAATTTGTTGGCAAACTGGANATTAGTATGTCGCCGCTCA 420
377 GTGATTGTGGAGATACCGGAATTTGTTGGCAAACTGGANATTAGTATGTCGCCGCTCA 436
421 AGACATCTATCACTGTTGCAAGATCTGATAGCAGGATTTAGGGAACCTGGAAGAGAAAT 480
437 AGACATCTATCACTGTTGCAAGATCTGATAGCAGGATTTAGGGAACCTGGAAGAGAAAT 496
481 TCTACTACATCGTCCAGGAAGAGAACTACAGGAATCCCTTAACCCCACTGCAGGATTC 540
497 TCTACTACATCGTCCAGGAAGAGAACTACAGGAATCCCTTAACCCCACTGCAGGATTC 556
541 GGGGTGGAATCTAGCCATGCCCAAGATGAAGTCCCAACACACTCATCGCTGACTATG 600
557 GGGGTGGAATCTAGCCATGCCCAAGATGAAGTCCCAACACACTCATCGCTGACTATG 616
601 TTGCCAAGTGGCTTCTTTGGGTGTTTCAATGGCGTGAATGACCTTGAAGGGGAGGAC 660
617 TTGCCAAGTGGCTTCTTTGGGTGTTTCAATGGCGTGAATGACCTTGAAGGGGAGGAC 676
661 AGTACATGTTCCACAGACACACTCCACTGCAGACACTATAGCACTGGAATGAGGGGAC 720
677 AGTACATGTTCCACAGACACACTCCACTGCAGACACTATAGCACTGGAATGAGGGGAC 736
721 CCAGCGACCCCTATGTCATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 780
737 CCAGCGACCCCTATGTCATGAGGACTGTGTGGAGATGCTGAGCTCTGGCAGATGGAATG 796
781 ACACAGATGCCATCTACCATGTACTTTGTCTGTGAGTTTCATCAAGAGAAAAAGTAA 840
797 ACACAGATGCCATCTACCATGTACTTTGTCTGTGAGTTTCATCAAGAGAAAAAGTAA 856
841 TTCCCTCATCTAGTATTGCTATTTTCTGTGACCGCTCATTCACAGTATTGTTATCCA 900
857 TTCCCTCATCTAGTATTGCTATTTTCTGTGACCGCTCATTCACAGTATTGTTATCCA 916
901 TCCCTTTTCTGATTTGATCTACATTTGATCTGAGTCAACATGCTAGAAATGCTAAA 960
917 TCCCTTTTCTGATTTGATCTACATTTGATCTGAGTCAACATGCTAGAAATGCTAAA 976
961 CTGAGGTATGAGCCTCCATCATCA 985
977 CTGAGGTATGAGCCTCCATCATCA 1001

RESULT 12
US-09-981-915A-96
; Sequence 96, Application US/09981915A
; Publication No. US20030054986A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuc, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Pacni, Nicholas F.
; APPLICANT: Roy, Margaret Ann.
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C12
; CURRENT APPLICATION NUMBER: US/09/981,915A
; PRIOR FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077791
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079664
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079663
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079786
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079920
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/079923
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/080105
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080107
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080165
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194

	Prior Application Number:	60/084441
	Prior Filing Date:	1998-05-06
	Prior Application Number:	60/084637
	Prior Filing Date:	1998-05-07
	Prior Application Number:	60/084639
	Prior Filing Date:	1998-05-07
	Prior Application Number:	60/084640
	Prior Filing Date:	1998-05-07
	Prior Application Number:	60/084598
	Prior Filing Date:	1998-05-07
	Prior Application Number:	60/084600
	Prior Filing Date:	1998-05-07
	Prior Application Number:	60/084627
	Prior Filing Date:	1998-05-07
	Prior Application Number:	60/084643
	Prior Filing Date:	1998-05-07
	Prior Application Number:	60/085339
	Prior Filing Date:	1998-05-13
	Prior Application Number:	60/085338
	Prior Filing Date:	1998-05-13
	Prior Application Number:	60/085323
	Prior Filing Date:	1998-05-13
	Prior Application Number:	60/085582
	Prior Filing Date:	1998-05-15
	Prior Application Number:	60/085700
	Prior Filing Date:	1998-05-15
	Prior Application Number:	60/085689
	Prior Filing Date:	1998-05-15
	Prior Application Number:	60/085579
	Prior Filing Date:	1998-05-15
	Prior Application Number:	60/085580
	Prior Filing Date:	1998-05-15
	Prior Application Number:	60/085573
	Prior Filing Date:	1998-05-15
	Prior Application Number:	60/085704
	Prior Filing Date:	1998-05-15
	Prior Application Number:	60/085697

	Query Match	51.5%;	Score	980.2;	DB	10;	Length	1016;
	Best Local Similarity	99.7%;	Pred. No.	4.5e-290;				
	Matches	982;	Conservative	0;	Mismatches	3;	Indels	0;
	Gaps	0;						
Qy	1	CAGCAATGAATGGCTTTGCATCTTTCCTTCGAGAAACCAATTTATCTCTCGTACTAT	60					
Db	17	CAGCAATGAATGGCTTTGCATCTTTCCTTCGAGAAACCAATTTATCTCTCGTACTAT	76					
Qy	61	TTCTTTTGCAAATTCAGAGTCTGGGTCTGGATATTGATAGCCCTCTCCGCTGAACTCT	120					
Db	77	TTCTTTTGCRAATTCAGATCTGGGTCTGGATTTGATAGCCCTCTACCGCTGAAGTCT	136					
Qy	121	GTGCCACACACACAATTTCCACAGGACCCAAAGAGAGATGATGTGTAAGAGAGATCCAG	180					
Db	137	GTGCCACACACACAATTTCCACAGGACCCAAAGAGAGATGATGTGTAAAGAGAGATCCAG	196					
Qy	181	GAGAGAGGGAAGCATCGCAATGGCAATGGGAGCGCATGGGGCCGGAAGGAATTTAAAGGAGAAC	240					
Db	197	GAGAGAGGGAAGCATGGCAATGGCAATGGGAGCGCATGGGGCCGGAAGGAATTTAAAGGAGAAC	256					
Qy	241	TGGGTGATATGGGATCGGGCAATATTGGCAAGACTGGGCCCATTTGGGAAGAGGGTG	300					
Db	257	TGGGTGATATGGGATCAGGGCAATATTGGCAAGACTGGGGCCCATTTGGGAAGAGGGTG	316					
Qy	301	ACAAGGGGAAAAGGTTTGCTTGGATACCTGGAGAAAAGCAAGCAGGACTCTGTCT	360					
Db	317	ACAAGGGGAAAAGGTTTGCTTGGATACCTGGAGAAAAGCAAGCAGGACTCTGTCT	376					
Qy	361	GTGATTGTGGAAGATACCGGAAAATTTGTGTGCAACCTGGATATTAGTATTGCCCGGCTCA	420					
Db	377	GTGATTGTGGAAGATACCGGAAAATTTGTGTGCAACCTGGATATTAGTATTGCCCGGCTCA	436					
Qy	421	AGACATCTATGAAGTTTGTCTAAGAAATGTGATAGCAGGGATTTAGGAAACTGAAGAGAAAT	480					
Db	437	AGACATCTATGAAGTTTGTCTAAGAAATGTGATAGCAGGGATTTAGGAAACTGAAGAGAAAT	496					

QY 481 TCTACTACATCGTGCAGGAGAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC 540
DB 497 TCTACTACATCGTGCAGGAGAGAACTACAGGGAATCCCTAACCCACTGCAGGATTC 556
QY 541 GGGGTGGATGCTAGCCATGCCCAAGGATGAAGTGCACACACTCATCTCCTGACTATG 600
DB 557 GGGGTGGATGCTAGCCATGCCCAAGGATGAAGTGCACACACTCATCTCCTGACTATG 616
QY 601 TTCCCAAGAGTGGCTTCTTCGGGTGTTCAATGGCGTGAATGACCTTGAAGGAGGAGAC 660
DB 617 TTCCCAAGAGTGGCTTCTTCGGGTGTTCAATGGCGTGAATGACCTTGAAGGAGGAGAC 676
QY 661 AGTACATGTTACAGACACACTCCACTGCACACTATAGCACTGGAATGAGGGGAC 720
DB 677 AGTACATGTTCCAGACACACTCCACTGCACACTATAGCACTGGAATGAGGGGAC 736
QY 721 CCAGCACCCCTATGTCATGAGGACTGTGTGGAGATCTGAGCTCTGGCAGATGGAATG 780
DB 737 CCAGCACCCCTATGTCATGAGGACTGTGTGGAGATCTGAGCTCTGGCAGATGGAATG 796
QY 781 ACACAGAGTGCATCTACATGTAATTTCTGTGAGTTCATCAAGAGAAAAGTAAC 840
DB 797 ACACAGAGTGCATCTACATGTAATTTCTGTGAGTTCATCAAGAGAAAAGTAAC 856
QY 841 TTCCCTCATCTACGTAATTTCTGTTCTGACCGTCAATACAGTTATTTGTTATCCA 900
DB 857 TTCCCTCATCTACGTAATTTCTGTTCTGACCGTCAATACAGTTATTTGTTATCCA 916
QY 901 TCTTTTTCCTGATGTACTACATTTGATCTGAGTCAACATGCTAGAAAATGCTAAA 960
DB 917 TCTTTTTCCTGATGTACTACATTTGATCTGAGTCAACATGCTAGAAAATGCTAAA 976
QY 961 CTGAGTATGGAGCCCTCCATCATCA 985
DB 977 CTGAGTATGGAGCCCTCCATCATCA 1001

RESULT 13
US-09-978-824-96
; Sequence 96, Application US/09978824
; Publication No. US20030055216A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C14

; CURRENT APPLICATION NUMBER: US/09/978,824
; CURRENT FILING DATE: 2001-10-17
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077791
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079664
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079663
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/079923
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/080105
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080107
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080165
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080328
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080333
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080334
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/081070
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081071
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195

/ PRIOR FILING DATE: 1998-04-08
/ PRIOR APPLICATION NUMBER: 60/081203
/ PRIOR FILING DATE: 1998-04-09
/ PRIOR APPLICATION NUMBER: 60/081229
/ PRIOR FILING DATE: 1998-04-09
/ PRIOR APPLICATION NUMBER: 60/081955
/ PRIOR FILING DATE: 1998-04-15
/ PRIOR APPLICATION NUMBER: 60/081817
/ PRIOR FILING DATE: 1998-04-15
/ PRIOR APPLICATION NUMBER: 60/081819
/ PRIOR FILING DATE: 1998-04-15
/ PRIOR APPLICATION NUMBER: 60/081952
/ PRIOR FILING DATE: 1998-04-15
/ PRIOR APPLICATION NUMBER: 60/081838
/ PRIOR FILING DATE: 1998-04-15
/ PRIOR APPLICATION NUMBER: 60/082568
/ PRIOR FILING DATE: 1998-04-21
/ PRIOR APPLICATION NUMBER: 60/082569
/ PRIOR FILING DATE: 1998-04-21
/ PRIOR APPLICATION NUMBER: 60/082704
/ PRIOR FILING DATE: 1998-04-22
/ PRIOR APPLICATION NUMBER: 60/082804
/ PRIOR FILING DATE: 1998-04-22
/ PRIOR APPLICATION NUMBER: 60/082700
/ PRIOR FILING DATE: 1998-04-22
/ PRIOR APPLICATION NUMBER: 60/082797
/ PRIOR FILING DATE: 1998-04-22
/ PRIOR APPLICATION NUMBER: 60/082796
/ PRIOR FILING DATE: 1998-04-23
/ PRIOR APPLICATION NUMBER: 60/083336
/ PRIOR FILING DATE: 1998-04-27
/ PRIOR APPLICATION NUMBER: 60/083322
/ PRIOR FILING DATE: 1998-04-28
/ PRIOR APPLICATION NUMBER: 60/083392
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083495
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083496
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083499
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083545
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083554
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083558
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083559
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083500
/ PRIOR FILING DATE: 1998-04-29
/ PRIOR APPLICATION NUMBER: 60/083742
/ PRIOR FILING DATE: 1998-04-30
/ PRIOR APPLICATION NUMBER: 60/084366
/ PRIOR FILING DATE: 1998-05-05
/ PRIOR APPLICATION NUMBER: 60/084414
/ PRIOR FILING DATE: 1998-05-06
/ PRIOR APPLICATION NUMBER: 60/084441
/ PRIOR FILING DATE: 1998-05-06
/ PRIOR APPLICATION NUMBER: 60/084637
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084639
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084640
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084598
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084600
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084627
/ PRIOR FILING DATE: 1998-05-07
/ PRIOR APPLICATION NUMBER: 60/084643
/ PRIOR FILING DATE: 1998-05-07

/ PRIOR APPLICATION NUMBER: 60/085339
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085338
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085323
/ PRIOR FILING DATE: 1998-05-13
/ PRIOR APPLICATION NUMBER: 60/085582
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085700
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085689
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085579
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085580
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085573
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085704
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085697
/ PRIOR APPLICATION NUMBER: 60/085697

Query Match 61.5%; Score 980.2; DB 10; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CAGCAATGAATGGCTTTGCATCCTTGCTTCGAGAGAACCAATTTATCTCTCTGGTACTAT 60
Db 17 CAGCAATGAATGGCTTTGCATCCTTGCTTCGAGAGAACCAATTTATCTCTCTGGTACTAT 76
QY 61 TTTCTTTGCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCTACCGTGAAGTCT 120
Db 77 TTTCTTTGCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGTCTACCGTGAAGTCT 136
QY 121 GTGCCACACACAAATTTACACAGGACCCCAAGGAGATGATGGTGAAGAGAGATCCAG 180
Db 137 GTGCCACACACAAATTTACACAGGACCCCAAGGAGATGATGGTGAAGAGAGATCCAG 196
QY 181 GAGAAGAGGGAAGAGCATGGCAAGTGGGACGGATGGGGCCGGAAGGAATTAAGAGAGAAC 240
Db 197 GAGAAGAGGGAAGAGCATGGCAAGTGGGACGGATGGGGCCGGAAGGAATTAAGAGAGAAC 256
QY 241 TGGTGATATGGGAGATCGGGGCAATATTGGGAGACTGGGCCCATTTGGGAAGAGAGGGTG 300
Db 257 TGGTGATATGGGAGATCGGGGCAATATTGGGAGACTGGGCCCATTTGGGAAGAGAGGGTG 316
QY 301 ACAAGGGGAAAAAGGTTTCTTTGGAAATACCTGGAGAAAAAGGCAAGCAGTACTGTCT 360
Db 317 ACAAGGGGAAAAAGGTTTCTTTGGAAATACCTGGAGAAAAAGGCAAGCAGTACTGTCT 376
QY 361 GTGATTTGGAAGATACCGGAATTTGTTGGAAATTTGGCAACTGGATATTAGTATGCCGGCTCA 420
Db 377 GTGATTTGGAAGATACCGGAATTTGTTGGAAATTTGGCAACTGGATATTAGTATGCCGGCTCA 436
QY 421 AGACATCTATGAAGTTTGTCAAGAAATGTGATAGAGGATTTAGGGAATCTGAAGAGAAAT 480
Db 437 AGACATCTATGAAGTTTGTCAAGAAATGTGATAGAGGATTTAGGGAATCTGAAGAGAAAT 496
QY 481 TCTACTACATCGTCAGGAAGAGAACTACAGGGAATTCCTTAACCCCACTCCAGGATTC 540
Db 497 TCTACTACATCGTCAGGAAGAGAACTACAGGGAATTCCTTAACCCCACTCCAGGATTC 556
QY 541 GGGGTGAATGCTAGCCATGCCCAAGGATGAAGCTGCCACACACTCATTCGCTGACTATG 600
Db 557 GGGGTGAATGCTAGCCATGCCCAAGGATGAAGCTGCCACACACTCATTCGCTGACTATG 616
QY 601 TTGCCAAGAGTGGCTTTCTTTTGGGGTGTTCATTGGGGTGAATGACCTTGAAGAGGGAGAC 660
Db 617 TTGCCAAGAGTGGCTTTCTTTTGGGGTGTTCATTGGGGTGAATGACCTTGAAGAGGGAGAC 676
QY 661 AGTACATGTTCAAGACACACTCCCACTGAGAACTATAGCAACTGGATGAGGGGAGAC 720
Db 677 AGTACATGTTCAAGACACACTCCCACTGAGAACTATAGCAACTGGATGAGGGGAGAC 736

Qy 721 CCAGCGACCCCTATGTCATGAGCACTGTGTGGAGATGCTGAGCTCTGCGCAGATGGAATG 780
Db 737 CCAGCGACCCCTATGTCATGAGCACTGTGTGGAGATGCTGAGCTCTGCGCAGATGGAATG 796
Qy 781 ACACAGAGTCCCATCTACCATGTACTTTGCTGTGAGTTTCATCAAGAAAGAAAGTAAC 840
Db 797 ACACAGAGTCCCATCTACCATGTACTTTGCTGTGAGTTTCATCAAGAAAGAAAGTAAC 856
Qy 841 TTCCTCATCTACGATTTTGGCTATTTTCTGTGACCGGTCAATACAGTTATTTGTTATCCA 900
Db 857 TTCCTCATCTACGATTTTGGCTATTTTCTGTGACCGGTCAATACAGTTATTTGTTATCCA 916
Qy 901 TCCTTTTTCCTGATGTACTACATCTGATCTGAGTCAACATAGTAAATGCTTAAA 960
Db 917 TCCTTTTTCCTGATGTACTACATCTGATCTGAGTCAACATAGTAAATGCTTAAA 976
Qy 961 CTGAGGTATGGAGCCCTCCATCATCA 985
Db 977 CTGAGGTATGGAGCCCTCCATCATCA 1001
RESULT 14
US-09-918-585A-96
; Sequence 96, Application US/09918585A
; Publication No. US20030060406A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Auscin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C1
; CURRENT APPLICATION NUMBER: US/09/918,585A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077791
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079664
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079663
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079786
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079920
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/079923
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/080105
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080107
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080165
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080328
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080333
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080334
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/081070
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081071
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081203
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081229
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081955
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081817
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081819
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081952
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081838
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082569

;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082704
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082804
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082700
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082797
;; PRIOR FILING DATE: 1998-04-22
;; PRIOR APPLICATION NUMBER: 60/082796
;; PRIOR FILING DATE: 1998-04-23
;; PRIOR APPLICATION NUMBER: 60/083336
;; PRIOR FILING DATE: 1998-04-27
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/083392
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083495
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083496
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083499
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083545
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083554
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083558
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083559
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083500
;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/083742
;; PRIOR FILING DATE: 1998-04-30
;; PRIOR APPLICATION NUMBER: 60/084366
;; PRIOR FILING DATE: 1998-05-05
;; PRIOR APPLICATION NUMBER: 60/084414
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084441
;; PRIOR FILING DATE: 1998-05-06
;; PRIOR APPLICATION NUMBER: 60/084637
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084639
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084598
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15

;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/086023

Query Match 61.5%; Score 980.2; DB 10; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CAGCAATGAATGGCTTTGTCATCTTCTGCTTGAAGAAACCAATTTATTCCTCTGGTACTAT 60
DB 17 CAGCAATGAATGGCTTTGTCATCTTCTGCTTGAAGAAACCAATTTATTCCTCTGGTACTAT 76

QY 61 TTCTTTTGCATAATTCAGAGTCTGGCTCTGTGATATTCATAGCCCTCTACCGCTGAAGTCT 120
DB 77 TTCTTTTGCATAATTCAGAGTCTGGCTCTGTGATATTCATAGCCCTCTACCGCTGAAGTCT 136

QY 121 GTGCCACACACACAATTTACACAGGCCCAAGAGATGATGTGAAAAAGAGATCCAG 180
DB 137 GTGCCACACACACAATTTACACAGGCCCAAGAGATGATGTGAAAAAGAGATCCAG 196

QY 181 GAGAAGGGGAAAGCATGGCAAAAGTGGAGCATGGGGCGAAGGAATTTAAAGAGAAAC 240
DB 197 GAGAAGGGGAAAGCATGGCAAAAGTGGAGCATGGGGCGAAGGAATTTAAAGAGAAAC 256

QY 241 TGGGTGATATGGGAGATCGGGGCAATATTTGGCAAGACTGGGGCCCATTTGGGAAGAGGGTG 300
DB 257 TGGGTGATATGGGAGATCGGGGCAATATTTGGCAAGACTGGGGCCCATTTGGGAAGAGGGTG 316

QY 301 ACAAGGGGAAAAAGTTTGGTGGAAATCTGGAGAAAGGCAAGCAGGTACTGTCT 360
DB 317 ACAAGGGGAAAAAGTTTGGTGGAAATCTGGAGAAAGGCAAGCAGGTACTGTCT 376

QY 361 GTGATTGTGGAAGATACCGGAAATTTCTTGGAACCTGGGATATTAGTATTGCCCGGCTCA 420
DB 377 GTGATTGTGGAAGATACCGGAAATTTCTTGGAACCTGGGATATTAGTATTGCCCGGCTCA 436

QY 421 AGACATCTATGAAGTTTGTCAAGAAATGTGATAGAGGATAGGAAACTGAAGAGAAAT 480
DB 437 AGACATCTATGAAGTTTGTCAAGAAATGTGATAGAGGATAGGAAACTGAAGAGAAAT 496

QY 481 TCTACTACATCGTCAGGAAGAGAAACTACAGGGAATCCCTAACCCACTGCAGGATTC 540
DB 497 TCTACTACATCGTCAGGAAGAGAAACTACAGGGAATCCCTAACCCACTGCAGGATTC 556

QY 541 GGGGTGGAATCTAGCCATGCCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATG 600
DB 557 GGGGTGGAATCTAGCCATGCCCAAGGATGAAGCTGCCAACACACTCATCGCTGACTATG 616

QY 601 TTGCCAAGAGTGGCTTCTTTCGGGTGTTCTATGGCGTGAATGACCTTGAAGGAGGGAC 660
DB 617 TTGCCAAGAGTGGCTTCTTTCGGGTGTTCTATGGCGTGAATGACCTTGAAGGAGGGAC 676

QY 661 AGTACATGTTCACAGACAACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAAAC 720
DB 677 AGTACATGTTCACAGACAACACTCCACTGCAGAACTATAGCAACTGGAATGAGGGGAAAC 736

QY 721 CCAGGACCCCTATGCTATGAGGACTGTGTGAGAGTGTGAGCTCTGGCAGATGGAATG 780
DB 737 CCAGGACCCCTATGCTATGAGGACTGTGTGAGAGTGTGAGCTCTGGCAGATGGAATG 796

QY 781 ACACAGAGTGCCATCTTACCATGTACTTTGTCTGTGAGTTTCATCAAGAGAAAAAGTAAC 840
DB 797 ACACAGAGTGCCATCTTACCATGTACTTTGTCTGTGAGTTTCATCAAGAGAAAAAGTAAC 856

QY 841 TTCCCTCATCTACGTATTGCTATTTCCTCTGACCGTCAATACAGTTATTTGTTATCCA 900
DB 857 TTCCCTCATCTACGTATTGCTATTTCCTCTGACCGTCAATACAGTTATTTGTTATCCA 916

QY 901 TCCTTTTTTCTGATTTGCTACTACATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA 960
DB 917 TCCTTTTTTCTGATTTGCTACTACATTTGATCTGAGTCAACATAGCTAGAAAAATGCTAAA 976

Qv 961 CTGAGGTATGGAGCCCTCCATCA 985
Db 977 CTGAGGTATGGAGCCCTCCATCA 1001

RESULT 15

US-09-978-423A-96
Sequence 96, Application US/09978423A
Publication No. US20030069178A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Pan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: P2630P1C21
CURRENT APPLICATION NUMBER: US/09/978,423A
CURRENT FILING DATE: 2002-05-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322

1 PRIOR FILING DATE: 1998-04-28
2 PRIOR APPLICATION NUMBER: 60/083392
3 PRIOR FILING DATE: 1998-04-29
4 PRIOR APPLICATION NUMBER: 60/083495
5 PRIOR FILING DATE: 1998-04-29
6 PRIOR APPLICATION NUMBER: 60/083496
7 PRIOR FILING DATE: 1998-04-29
8 PRIOR APPLICATION NUMBER: 60/083499
9 PRIOR FILING DATE: 1998-04-29
10 PRIOR APPLICATION NUMBER: 60/083545
11 PRIOR FILING DATE: 1998-04-29
12 PRIOR APPLICATION NUMBER: 60/083554
13 PRIOR FILING DATE: 1998-04-29
14 PRIOR APPLICATION NUMBER: 60/083558
15 PRIOR FILING DATE: 1998-04-29
16 PRIOR APPLICATION NUMBER: 60/083559
17 PRIOR FILING DATE: 1998-04-29
18 PRIOR APPLICATION NUMBER: 60/083500
19 PRIOR FILING DATE: 1998-04-29
20 PRIOR APPLICATION NUMBER: 60/083742
21 PRIOR FILING DATE: 1998-04-30
22 PRIOR APPLICATION NUMBER: 60/084366
23 PRIOR FILING DATE: 1998-05-05
24 PRIOR APPLICATION NUMBER: 60/084414
25 PRIOR FILING DATE: 1998-05-06
26 PRIOR APPLICATION NUMBER: 60/084441
27 PRIOR FILING DATE: 1998-05-06
28 PRIOR APPLICATION NUMBER: 60/084637
29 PRIOR FILING DATE: 1998-05-07
30 PRIOR APPLICATION NUMBER: 60/084639
31 PRIOR FILING DATE: 1998-05-07
32 PRIOR APPLICATION NUMBER: 60/084640
33 PRIOR FILING DATE: 1998-05-07
34 PRIOR APPLICATION NUMBER: 60/084598
35 PRIOR FILING DATE: 1998-05-07
36 PRIOR APPLICATION NUMBER: 60/084600
37 PRIOR FILING DATE: 1998-05-07
38 PRIOR APPLICATION NUMBER: 60/084627
39 PRIOR FILING DATE: 1998-05-07
40 PRIOR APPLICATION NUMBER: 60/084643
41 PRIOR FILING DATE: 1998-05-07
42 PRIOR APPLICATION NUMBER: 60/085339
43 PRIOR FILING DATE: 1998-05-13
44 PRIOR APPLICATION NUMBER: 60/085338
45 PRIOR FILING DATE: 1998-05-13
46 PRIOR APPLICATION NUMBER: 60/085323
47 PRIOR FILING DATE: 1998-05-13
48 PRIOR APPLICATION NUMBER: 60/085592
49 PRIOR FILING DATE: 1998-05-15
50 PRIOR APPLICATION NUMBER: 60/085700
51 PRIOR FILING DATE: 1998-05-15
52 PRIOR APPLICATION NUMBER: 60/085689
53 PRIOR FILING DATE: 1998-05-15
54 PRIOR APPLICATION NUMBER: 60/085579
55 PRIOR FILING DATE: 1998-05-15
56 PRIOR APPLICATION NUMBER: 60/085580
57 PRIOR FILING DATE: 1998-05-15
58 PRIOR APPLICATION NUMBER: 60/085573
59 PRIOR FILING DATE: 1998-05-15
60 PRIOR APPLICATION NUMBER: 60/085704
61 PRIOR FILING DATE: 1998-05-15
62 PRIOR APPLICATION NUMBER: 60/085697

Query Match 61.5%; Score 980.2; DB 10; Length 1016;
Best Local Similarity 99.7%; Pred. No. 4.5e-290;
Matches 982; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 1 CAGCAATGATGGCTTGGATCTGCGTTCGAGAAACCAATTTATCTCTCGTACTAT 60
Db 17 CAGCAATGATGGCTTGGATCTGCGTTCGAGAAACCAATTTATCTCTCGTACTAT 76
Qy 61 TTCTTTGCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGCTCTACCGCTGAAGTCT 120

77 TTCTTTGCAAAATTCAGAGTCTGGGTCTGGATATTGATAGCCGCTCTACCGCTGAAGTCT 136
Qy 121 GTGCCACACACACAAATTTCCACAGGACCCCAAGGAGATGATGGTGAAGAGATTCAG 180
Db 137 GTGCCACACACACAAATTTCCACAGGACCCCAAGGAGATGATGGTGAAGAGATTCAG 196
Qy 181 GAGAAGAGGGAAGCATGGCAAAAGTGGGACGATGGGGCCGAAAGGAATTAAGGAGAAC 240
Db 197 GAGAAGAGGGAAGCATGGCAAAAGTGGGACGATGGGGCCGAAAGGAATTAAGGAGAAC 256
Qy 241 TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAGAGAGG 300
Db 257 TGGGTGATATGGGAGATCGGGGCAATATTGGCAAGACTGGGCCCATTTGGGAGAGAGG 316
Qy 301 ACAAAGGGGAAAAGGTTTGGTTCGAAATACCTGGAGAAAAGGCAAGCAGGTACTGTCT 360
Db 317 ACAAAGGGGAAAAGGTTTGGTTCGAAATACCTGGAGAAAAGGCAAGCAGGTACTGTCT 376
Qy 361 GTGATTGTGGAAGATACCGGAAATTTGTTGGCACTGGGATATTAGTATTCGCCGCTCA 420
Db 377 GTGATTGTGGAAGATACCGGAAATTTGTTGGCACTGGGATATTAGTATTCGCCGCTCA 436
Qy 421 AGACATCTATGAAGTTTGTCAAGAATGTGATACAGGGATTAGGGAATCTGAAGAGAAAT 480
Db 437 AGACATCTATGAAGTTTGTCAAGAATGTGATACAGGGATTAGGGAATCTGAAGAGAAAT 496
Qy 481 TCTACTACATCGTCGAGAGAGAACTACAGGGAATCCCTACCCACTCCAGGATTC 540
Db 497 TCTACTACATCGTCGAGAGAGAACTACAGGGAATCCCTACCCACTCCAGGATTC 556
Qy 541 GGGGTGAATCTAGCCATGCCCAAGGATGAAGCTGCCAACAACACTCATCGCTGACTATG 600
Db 557 GGGGTGAATCTAGCCATGCCCAAGGATGAAGCTGCCAACAACACTCATCGCTGACTATG 616
Qy 601 TTGCCAAGAGTGGCTTCTTCGGGTCTTCATTTGGCGTGAATGACCTTGAAGGGAGGAC 660
Db 617 TTGCCAAGAGTGGCTTCTTCGGGTCTTCATTTGGCGTGAATGACCTTGAAGGGAGGAC 676
Qy 661 AGTACATGTTTCACAGACAACACTCCACTCGAGAATATAGCAACTGGAATGAGGGGAAAC 720
Db 677 AGTACATGTTTCACAGACAACACTCCACTCGAGAATATAGCAACTGGAATGAGGGGAAAC 736
Qy 721 CCAGGACCCCTATGTCATGAGGACTGTGAGATGCTGAGCTCTGCAGATGGATG 780
Db 737 CCAGGACCCCTATGTCATGAGGACTGTGAGATGCTGAGCTCTGCAGATGGATG 796
Qy 781 ACAGAGTGCCTCTTACCATGTACTTTGCTGTGAGTTTCATCAAGAGAAAAGTAAAC 840
Db 797 ACAGAGTGCCTCTTACCATGTACTTTGCTGTGAGTTTCATCAAGAGAAAAGTAAAC 856
Qy 841 TTCCCTCATCTAGTATTTGCTTATTTCCCTGACCGCTCATTCAGTTATTGTTATCCA 900
Db 857 TTCCCTCATCTAGTATTTGCTTATTTCCCTGACCGCTCATTCAGTTATTGTTATCCA 916
Qy 901 TCCTTTTTTCTGATTTACTACATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA 960
Db 917 TCCTTTTTTCTGATTTACTACATTTGATCTGAGTCAACATAGCTAGAAAATGCTAAA 976
Qy 961 CTGAGGTATGGAGCTCCCATCA 985
Db 977 CTGAGGTATGGAGCTCCCATCA 1001

Search completed: February 24, 2004, 02:21:18
Job time : 565 secs